



TC/49/42

ORIGINAL: English

DATE: February 28, 2014

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL COMMITTEE**Forty-Ninth Session
Geneva, March 18 to 20, 2013**REPORT¹*prepared by the Office of the Union*Opening of the session

*1. The Technical Committee (TC) held its forty-ninth session in Geneva from March 18 to 20, 2013. The list of participants is reproduced in Annex I to this report.

*2. The session was opened by Mr. Joël Guiard (France), Chairman of the TC, who welcomed the participants.

*3. The Chairman reported that Serbia had deposited its instrument of accession to the 1991 Act of the UPOV Convention on December 5, 2012, and had become the seventy-first member of UPOV on January 5, 2013. He also reported that France had deposited its instrument of ratification of the 1991 Act of the UPOV Convention on April 27, 2012, and had become bound by the 1991 Act on May 27, 2012, and that Panama had deposited its instrument of accession to the 1991 Act of the UPOV Convention on October 22, 2012, and had become bound by the 1991 Act on November 22, 2012.

*4. The Chairman informed the TC of the granting of observer status to Ghana in the TC and the Technical Working Parties (TWPs) and the granting of observer status to the African Seed Trade Association (AFSTA) to the Council, the Administrative and Legal Committee (CAJ) and the TWPs.

*5. The Vice Secretary-General reported that Mrs. Margaret Byskov and Mrs. Julia Borys would retire in 2013, after sixteen years and two years of service, respectively. He expressed his appreciation for their dedicated service and important contribution to the Office of the Union. The Vice Secretary-General further reported that Mr. Benjamin Rivoire and Mr. Leontino Taveira had been appointed as Technical/Regional Officer (Africa, Arab countries) and Technical/Regional Officer (Latin America, Caribbean countries), respectively.

Adoption of the agenda

*6. The TC adopted the agenda as presented in document TC/49/1 Rev 2.

¹ The asterisked (*) paragraphs in this report are reproduced from document TC/49/41 (Report on the Conclusions).

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)

7. The Vice Secretary-General provided an oral report, in the form of a Powerpoint presentation, on the sixty-fifth and sixty-sixth sessions of the CAJ, eighty-third and eighty-fourth sessions of the Consultative Committee and the twenty-ninth extraordinary session and the forty-sixth ordinary session of the Council. A copy of the presentation is provided in Annex II to this report (in original language only).

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 the Ad Hoc Crop Subgroups on Molecular Techniques

8. The TC received oral reports from the Chairpersons, in the form of Powerpoint presentations, 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) and the Technical Working Party for Vegetables (TWV). The TC noted that no session of the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT) had been held since the forty-eighth session of the TC. A copy of those presentations is provided in Annex III to this report (in original language only) and a summary of the work provided by the Chairpersons is provided below:

Technical Working Party for Agricultural Crops (TWA)

9. The TWA held its forty-first session in Angers, France, from May 21 to 25, 2012, under the chairmanship of Mrs. Robyn Hierse (South Africa), Chairperson of the TWA. The report of the meeting is provided in document TWA/41/34 "Report".

10. The session was attended by 53 participants from 28 members of the Union, one observer State, two organizations plus three electronic participants, two from Australia and one from the World Intellectual Property Organization (WIPO). The Preparatory Workshop was held on the afternoon of May 20 and was attended by 25 participants from 14 members of the Union.

11. The TWA was welcomed by Mr. Robert Tessier, *Sous-Directeur de la Qualité et de la protection des végétaux, Ministère de l'agriculture et de la pêche*, and received presentations from Mrs. Sylvie Dutartre, Director of the *Groupe d'étude et de contrôle des variétés et des semences* (GEVES), Mr. Georges Sicard, Head of the Variety Testing Department of GEVES, and Ms. Virginie Bertoux, Head of *Instance nationale des obtentions végétales* (INOV).

12. The TWA noted that the information on developments in plant variety protection from members and observers was provided in document TWA/41/31 "Reports on Development in Plant Variety Protection from Members and Observers". That was followed by a presentation from the Office of the Union on the latest developments within UPOV. After the reports, the TWA noted the information on developments in UPOV on molecular techniques, which is provided in document TWA/41/2 "Molecular Techniques".

13. A number of TGP documents were discussed: TGP/7 "Development of Test Guidelines", TGP/8 "Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability" and TGP/14 "Glossary of Terms Used in UPOV Documents".

14. With regard to the revision of TGP/7, the TWA considered document TWA/41/11 "Summary of Revisions Agreed for Document TGP/7 'Development of Test Guidelines'" and agreed that, as proposed in the Annex to document TWA/41/11, document TGP/7: GN 7 should be amended.

15. The TWA received a presentation by the expert from Germany based on document TWA/41/12 "Guidance on the Number of Plants to be Examined for Distinctness". The following documents were also considered: TWA/41/13 "Guidance for Method of Observation", TWA/41/14 "Example Varieties" and TWA/41/15 "Providing Photographs with the Technical Questionnaire". Several proposals and comments were made and noted.

16. With regard to document TGP/8 “Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability”, several documents were given consideration. The TWA also received presentations on several of these documents.

17. An expert from Germany made a presentation regarding document TWA/41/16 “Revision of Document TGP/8 Part I, DUS Trial Design and Data Analysis, New Section 2 – Data to be Recorded”; an expert from France made a presentation regarding document TWA/41/17 “Revision of Document TGP/8 Part II: Techniques Used in DUS Examination, New Section: Guidance of Data Analysis for Blind Randomized Trials”; an expert from the United Kingdom made a presentation on document TWA/41/21 Corr. “Revision of Document TGP/8 Part II: Techniques Used in DUS Examination, New Section: Reduction of size of the trial”, and an expert from the Netherlands made a presentation on document TWA/41/24 “Revision of Document TGP/8 Part I, DUS Trial Design and Data Analysis, New Section: Minimizing the Variation due to Different Observers”. The information provided in those documents was discussed and certain proposals and recommendations were made.

18. The TWA also considered the documents covering the revision of document TGP/14 “Glossary of Terms Used in UPOV Documents” and agreed with the proposed text, as presented in Annex I to document TWA/41/27 “Revision of Document TGP/14: Section 2 : Botanical Terms, Subsection 2: Shapes and Structures,” concerning the perspective from which to observe plant shapes. The TWA agreed with the definitions for peduncle, pedicel, petiole and petiolule and recommended that the translations of these terms be checked. With regard to the revision of “components of shape: states of expression for ratios”, the TWA recommended that it would be more appropriate to use the states “small” to “large” instead of “low” to “high” when considering the length/width ratio. The TWA considered the guidance on the use of composite characteristics for determining distinctness and uniformity contained in Annex V to document TWA/41/27 and agreed that the presented method was useful and recommended its inclusion in document TGP/14.

19. The TWA noted the information provided in document TWA/41/10 “Method for Calculation of COYU” and document TWA/41/9 “Assessment of Uniformity by Off-Types on the Basis of More Than one Sample or Sub-Samples”, as well as the developments with regard to variety denominations (document TWA/41/4 “Variety Denominations”) and information and databases provided in the documents: TWA/41/6 “Variety Description Databases”, TWA/41/7 “Exchangeable Software” and TWA/41/8 “Electronic Application Systems”.

20. The TWA received a presentation on the PLUTO database and noted the information provided in document TWA/41/5 “UPOV Information Databases”.

21. With regard to agenda item 13, Guidance for drafters of Test Guidelines, the TWA received a presentation on the project for a web-based Test Guidelines Template (TG Template) in order to introduce the project to the drafters of Test Guidelines. The TWA noted the features of the proposed TG Template and discussed the possible use of such a template and related databases. The TWA supported the initiative and agreed to the continuation of the work on the TG Template.

22. The TWA discussed 14 draft Test Guidelines and agreed to submit to the TC three of those Test Guidelines, namely, Common Vetch, Foxtail Millet and Sesame.

23. The TWA agreed to discuss the following draft Test Guidelines at its forty-second session:

- Adlay (*Coix ma-yuen* Roman.)
- Adzuki/Red bean (*Vigna angularis*)
- Cassava (*Manihot esculenta* Crantz.)
- Groundnut (*Arachis* L.) (Revision)
- Kentucky Bluegrass (*Poa pratensis* L.) (Revision)
- Rhodesgrass (*Chloris gayana* Kunth)
- Scorpion Weed (*Phacelia tanacetifolia* Benth.)
- Solanum tuberosum subsp. Andigenum
- Sorghum (*Sorghum bicolor* L.) (Revision)
- Tall wheatgrass (*Elytrigia elongata* (Host) Nevski), (*Agropyron elongatum* (Host) P. Beauv.)
- Urochloa (*Brachiaria*)
- Wheat (*Triticum aestivum*) (Revision)

24. At the invitation of Ukraine, the TWA agreed to hold its forty-second session in Kyiv, from June 17 to 21, 2013, with the Preparatory Workshop on June 16, 2013.

25. The TWA proposed to consider the following items at its next session:

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers
 - (b) Reports on developments within UPOV
4. Molecular techniques
5. TGP documents
6. Variety denominations
7. Information and databases
 - (a) UPOV information databases
 - (b) Variety description databases
 - (c) Exchangeable software
 - (d) Electronic application systems
8. Uniformity assessment
9. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)
10. Discussion on draft Test Guidelines (Subgroups)
11. Recommendations on draft Test Guidelines
12. Guidance for drafters of Test Guidelines
13. Date and place of the next session
14. Future program
15. Report on the session (if time permits)
16. Closing of the session

26. On the afternoon of May 23, 2012, the TWA visited the technical unit of GEVES in L'Anjouère. The TWA visited the greenhouse and field trials for oilseed rape and cereals, where explanations were provided on the conduct of trials and collection management.

Technical Working Party on Automation and Computer Programs (TWC)

27. The TWC held its thirtieth session in Chisinau, Republic of Moldova, from June 25 to 29, 2012, under the chairmanship of Mr. Sami Markkanen (Finland), Chairman of the TWC.

28. The TWC session was attended by 51 participants from 20 members of the Union. The Preparatory Workshop was held during the afternoon of Monday, June 25, and was attended by 26 participants from seven members of the Union. 46 documents were discussed during the meeting.

29. The TWC was welcomed by Mr. Viorel Gutu, Vice Minister of the Ministry of Agriculture and Food Industry of the Republic of Moldova. Mrs. Svetlana Munteanu, Deputy Director General of the State Agency on Intellectual Property, also welcomed the participants. Mr. Mihail Machidon, Chairman of the State Commission on Plant Varieties Testing (SCPVT), made a presentation on the PVP system in the Republic of Moldova.

30. The TWC considered 14 documents on the revision of document TGP/8 "Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability".

Documents for TGP/8 Part I: DUS Trial Design and Data Analysis

31. The TWC considered document TWC/30/16 Rev. "Data to be recorded" and agreed that the document be submitted to the TC for approval after the recommended degrees of freedom in the tables in the Annex had been updated. Some minor amendments to the text were also suggested.

32. The TWC recommended that the new section "Minimizing the Variation due to Different Observers" in document TWC/30/24 should also be submitted for consideration by the TC.

33. The TWC agreed that the last title in document TWC/30/21 “Reduction of Size of Trials” should be changed to refer to technical details and an example given. The TWC also requested the drafter to include a sentence in the beginning of the Chapter stating that the “chapter is of relevance to the reader interested in technical details”.

Documents for TGP/8 Part II: Techniques Used in DUS Examination

34. The TWC considered the questions from other Technical Working Parties (TWPs) concerning document TWC/30/23 “The Combined-Over-Years Criteria (COYD)”. The TWC clarified that the proposal to reduce the minimum degrees of freedom provided suitable statistical methods for smaller trials, even though 20 degrees of freedom was preferable. The TWC also considered that the diagram on page 39 of document TGP/8/1 concerning requirements for statistical methods for distinctness assessment did not need to be changed. This diagram was consistent with the proposed changes in degrees of freedom.

35. The TWC also agreed that document TWC/30/20 “Adapting COYD to Special Circumstances” should be included in document TGP/8. Concerning document TWC/30/22 “2x1% Method – Minimum Number of Degrees of Freedom for the 2x1% Method”, the TWC clarified that the COYD method was preferable over the 2x1% method for assurance that the results were consistent and repeatable.

36. The TWC considered document TWC/30/26 “Minimum Number of Comparable Varieties for the Relative Variance Method”. The TWC requested the drafter to check whether the remaining sections were already covered under TGP/8/1. With regard to document TWC/30/28 on “New Section 11 – Examining DUS in Bulk Samples”, the TWC stated that this guidance would be useful for determination of substances content and electrophoresis.

37. A presentation of the various methods used for transformation of measurements into notes for variety descriptions was made by the Office of the Union. The TWC agreed that experts from Finland, Italy and the United Kingdom should support the Office of the Union to summarize the different approaches for further development of common guidance on data processing for the assessment of distinctness and for producing variety descriptions. The TWC further agreed that experts from France, Germany and the United Kingdom would prepare a survey on the processing of a common data set to produce variety descriptions. The aim of this survey would be to determine aspects in common and where there was divergence among the methods.

38. After discussing document TWC/30/17 “Guidance of Data Analysis for Blind Randomized Trials”, the TWC recommended that it should be made more general so as to apply to all possible users. Further guidance provided by the document should include information on the number of replications to ensure that correct labeling of the variety by chance would not be likely.

39. The TWC agreed that document TWC/30/18 “Guidance for Development of Variety Descriptions” should be further developed. The TWC considered the issues arising from diverging notes and suggested that the document should be revised in order to cover all methods used by members of the Union.

40. After considering document TWC/30/29 “Statistical Methods for Visually Observed Characteristics”, the TWC hoped to have new examples for the preparation of a new draft for the document.

41. The TWC took note of the information contained in document TWC/30/10 “Method of Calculation of COYU” and noted that a document on possible proposals for improvements to COYU could not be prepared for consideration by the TWC in 2012. The TWC requested experts from Denmark and the United Kingdom to continue with the preparation of the document for consideration by the TWC at its thirty-first session.

42. The TWC considered document TWC/30/9 “Assessing Uniformity by Off-Types on the Basis of More Than one Sample or Sub Samples” in conjunction with an oral presentation by an expert from Germany on the study of different approaches included in the document. The TWC noted the need for further explanation on the situations described, such as clarification of whether two growing cycles related to the use of the same sample and were carried out in the same year. The TWC agreed that more detailed information and further analysis was needed in order to give guidance on the consequences of the use of the different approaches. The TWC agreed that France, Germany and the Netherlands would present one or more concrete situations in their countries and the statistical basis of their analysis. The TWC also agreed that the statistical basis for the acceptable number of off-types in the sub-sample of 20 plants used in the context of a sample of 100 plants would be assessed by experts from France and Germany.

43. The TWC received a presentation on document TWC/30/31 "AIM: Management of Image Analysis – Experience from France" by an expert from France. AIM software is used to control the centralized and shared image analysis system in GEVES. AIM software could be made available free of charge by its developer GEVES. The TWC suggested that training on the use and the translation of this software into English would be essential for wider use. The TWC also agreed to propose that the AIM software be included in the list of exchangeable software.

44. Document TWC/30/39 "A Survey on Software and Hardware used for Image Analysis" was presented to the TWC. The survey provided information for guidance, materials needed, calibration and standardization essential for image analysis. The information provided by Finland and France would be included in the document. The TWC agreed that a draft of a new section "Examining Characteristics Using Image Analysis" would benefit from this information and agreed that experts from the Netherlands in collaboration with an expert from the European Union should prepare this document.

45. Concerning document TWC/30/34 "Updated Survey on Hand-Held Data Capture Devices", the TWC recommended that a new circular be issued by the Office of the Union to revise the information in the document.

46. The TWC considered document TWC/30/7 "Exchangeable Software". The TWC agreed that, before taking a view on the inclusion of a software on the list, clarification was needed on the conditions of availability, need for translation, training, maintenance and costs for potential users. The TWC received a presentation "Information System (IS) Used for Test and Protection of Plant Varieties in the Russian Federation" (see document TWC/30/35) by an expert from Belarus in the absence of the experts from the Russian Federation. The TWC agreed that the Information System used by the Russian Federation could be included in the list of exchangeable software, with a remark that it would be available in the Russian language.

47. The TWC received an electronic presentation via the internet of a project concept for a web-based Test Guidelines Template (TG Template) for drafters of Test Guidelines by the Office of the Union. The TWC supported the initiative and continuation of work on this project. Another electronic presentation was made by Mr. Glenn Mac Stravic, Head, Brand Database Section, WIPO on the PLUTO database.

48. The expert from Germany provided the participants with a CD containing the latest database of TWC working documents.

49. The TWC agreed to hold its thirty-first session in Seoul, Republic of Korea, from June 4 to 7, 2013, with the Preparatory Workshop on June 3, 2013.

50. The TWC planned to discuss the following items at its thirty-first session:

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection:
 - (a) Reports from members and observers
 - (b) Reports on developments within UPOV
4. Molecular techniques
5. TGP documents
7. Variety denominations
8. Information and databases
 - (a) UPOV information databases
 - (b) Variety description databases
 - (c) Exchangeable software
 - (d) Electronic application systems
9. Data loggers
10. Image analysis
11. Assessing uniformity by off-types on the basis of more than one sample or sub-samples
12. Development of COY
 - COYU: possible proposals for improvements to COYU
13. Statistical analysis of categorical data

14. Webcasting of UPOV Sessions
15. Database for researching TWC documents
16. Date and place of the next session
17. Future program

51. On the afternoon of June 28, 2012, the TWC visited the Grape and Wine Production Enterprise Chateau Vartely, in Orhei, Republic of Moldova.

Technical Working Party for Fruit Crops (TWF)

52. The TWF held its forty-third session in Beijing, China, from July 30 to August 3, 2012. The session was opened and chaired by Mrs. Carensa Petzer (South Africa), Chairperson of the TWF.

53. The TWF session was attended by 52 participants from 16 members of the Union, three observer States and one observer organization.

54. The Preparatory Workshop was attended by 25 participants from nine members of the Union and three observer States.

55. The TWF was welcomed by Mr. Zhang Yanqui, Director, General of the Bureau of Seed Management, Ministry of Agriculture, and Mr. Huang Faqiang, Deputy Director General of the Science and Technology Development Center, State Forestry Administration and Deputy Director, General of the Office of Protection of New Varieties of Plants, State Forestry Administration.

56. The TWF invited further information from TWF experts on the use of biochemical and molecular techniques in fruit crops for purposes such as variety identification, management of variety collections and other applications to be presented at its next session. The expert from France would provide more information at the next TWF meeting.

57. The TWF considered the following matters on the basis of document TWF/43/3 "TGP Documents".

TGP/7: Development of Test Guidelines

- Summary of revisions agreed for document TGP/7 "Development of Test Guidelines"
- Guidance on the number of plants to be examined (for distinctness)
- Guidance for method of observation
- Providing photographs with the Technical Questionnaire
- Example varieties

58. The TWF received a presentation on example varieties by an expert from France and proposed that a three-step approach be taken into consideration by the Leading Expert when drafting Test Guidelines.

- Step 1: to ascertain whether example varieties were necessary for a specific characteristic;
- Step 2: if considered necessary, those example varieties that could be used as common or universal references should be identified;
- Step 3: to establish whether a regional set of example varieties were necessary for the specific Test Guidelines.

59. The TWF considered document TWF/46/16 "Revision of Document TGP/8: Part I: DUS Trial Design and Data Analysis, New Section 2 : Data to be Recorded" and agreed that the document should be submitted to the TC for approval at its next session.

60. In relation to document TGP/14 "Glossary of Terms Used in UPOV Documents", the TWF considered document TWF/46/27: "Revision of document TGP/14: Section 2: Botanical Terms; Subsection 2: Shapes and Structures". With regard to the revision of "components of shape: states of expression for ratios", the TWF:

- appreciated that their earlier proposal to have all states from "compressed to elongated" had been agreed by other TWPs;
- requested that the changes proposed be consistently updated throughout document TGP/14;

- proposed that the ratio diameter/height be changed to ratio length/width to be consistent throughout document TGP/14.

61. The TWF noted the developments reported in document TWF/43/4 “Variety Denominations.”

62. The TWF considered document TWF/43/19 “Webcasting of UPOV Sessions” but highlighted the limitations of electronic communication tools with large audiences when active contributions are necessary.

63. The TWF considered document TWF/43/36 “Proposal for a Partial Revision of the Test Guidelines for Mandarins” and received a presentation from Mr. Jean Maison (European Union), the coordinator of the subgroup. The experts from Spain and Morocco reported on their progress to date. The TWF noted that results obtained from the ring tests made on the basis of the agreed methodology would be presented to the TWF at its session in 2013.

64. The TWF expressed its appreciation of the work done by Mr. Jean Maison (European Union), as coordinator of the subgroup.

65. The TWF agreed that the following draft Test Guidelines should be submitted to the TC for adoption: *Fortunella* Swingle, Papaya (*Carica papaya* L.), Pineapple (*Ananas comosus* L. Merr.) and Pomegranate (*Punica granatum* L.).

66. The TWF agreed to discuss the following draft Test Guidelines at its forty-fourth session:

- Avocado rootstock (*Persea* Mill.)
- Acca (*Acca sellowiana* (Berg) Burret)
- Apple rootstocks (*Malus* Mill.) (Revision)
- Coconut (*Cocos nucifera* L.)
- Litchi (*Litchi chinensis* Sonn.)
- Mandarins (*Citrus* L. - Group 1) (Partial revision)
- Peach (*Prunus persica* (L.) Batsch) (Partial revision)
- Pecan nut (*Carya illinoensis* (Wangenh.) K. Koch)
- Prunus rootstocks (*Prunus* L.) (Revision)
- Vanilla (*Vanilla planifolia* Jacks.)
- Walnut (*Juglans regia* L.) (revision)

67. At the invitation of the expert from New Zealand, the TWF agreed to hold its forty-fourth session in Napier, New Zealand, from April 29 to May 3, with the Preparatory Workshop on April 28, 2013.

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

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers
 - (b) Reports on developments within UPOV
4. Molecular techniques
5. TGP documents
6. Variety denominations
7. Information and databases
 - (a) UPOV information databases
 - (b) Variety description databases
 - (c) Exchangeable software
 - (d) Electronic application systems
8. Uniformity assessment
9. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)
10. Discussions on draft Test Guidelines
11. Recommendations on draft Test Guidelines

12. Guidance for drafters of Test Guidelines
13. Experience with new Types and species
14. Date and place of next session
15. Future program
16. Report on the session (if time permits)
17. Closing of the session

69. On the afternoon of August 1, 2012, the TWF visited the facilities of the Institute of Forestry and Pomology, Beijing Academy of Agriculture and Forestry Sciences, Beijing, where the TWF was welcomed by Dr. Yuzhu Wang, the Director of the Institution.

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

70. The TWO held its forty-fifth session in Jeju, Republic of Korea, from August 6 to 10, 2012. The session was chaired by Mr. Nik Hulse (Australia), Chairman of the TWO. The detailed report is provided in document TWO/45/37.

71. The meeting was attended by 60 participants, from 15 members of the Union, four observer States and two observer organizations. The Preparatory Workshop was held during the afternoon of August 5 and was attended by 34 participants.

72. The TWO was welcomed by Mr. Won-Gil Bae, Director General, Korea Seed & Variety Service (KSVS) and Mr. Young-Kook Chang, Director, Plant Variety Division, KSVS. Mr. Won-Gil Bae provided an overview of the plant variety protection system in the Republic of Korea. Mr Young-Kook Chang made a presentation on the plant variety protection activities undertaken by KSVS.

73. The TWO noted the information on developments in variety protection from members and observers provided in document TWO/45/36 Prov. "Reports on Development in Plant Variety Protection from Members and Observers". It received an oral report from the Office of the Union on the latest developments within UPOV.

74. The TWO considered document TWO/45/11 "Summary of Revisions Proposed for document TGP/7 'Development of Test Guidelines'" and agreed that Chapter 2.3 should read "The minimum quantity of plant material, to be supplied by the applicant should be: [...]".

75. The TWO considered document TWO/45/12 on "Guidance of the Number of Plants to be Examined (for Distinctness)". The TWO proposed that the minimum number of plants should match the number necessary to observe the characteristic that required the greatest number of plants.

76. The TWO considered document TWO/45/13 on "Guidance for Method of Observation" and agreed with the TWA, TWC, TWV and TWF on the proposed text, as presented in paragraph 14 of document TWO/45/37.

77. The TWO considered documents TWO/45/14 and TWO/45/14 Add. on "Example Varieties" and agreed that the use of illustrations should be further encouraged for qualitative and pseudo-qualitative characteristics and supported the three step approach developed by the TWF, whereby the Leading Expert takes into consideration:

- Step 1: to ascertain whether example varieties were necessary for a specific characteristic;
- Step 2: if considered necessary, those example varieties that could be used as common or universal references should be identified;
- Step 3: to establish whether a regional set of example varieties were necessary for the specific Test Guidelines.

78. The TWO considered document TWO/45/15 "Revision of Document TGP/7: Guidance for Providing Photographs with the Technical Questionnaire" and suggested to revise the proposed wording for the new ASW 16, as presented in the Annex to document TWO/45/15, to read: "A representative color photograph of the variety displaying its main distinguishing feature(s) must accompany the TQ, if required by the authority. The photograph will provide a visual illustration of the candidate variety which supplements the information provided by the TQ."

79. The TWO considered documents TWO/45/30 and TWO/45/30 Add. "Revision of Document TGP/8: Part II: Techniques Used in DUS Examination, New Section: Methods for Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions". The documents contained a summary of different approaches for transforming means into notes for variety descriptions. The TWO agreed with the recommendation of the TWF that consideration be given to the construction of a meaningful scale of expression in the case of a limited range of available example varieties.

80. The TWO considered document TWO/45/17 "Revision of Document TGP/8: Part II: Techniques Used in DUS Examination, New Section: Guidance of Data Analysis for Blind Randomized Trials". The TWO proposed that examples for the use of blind randomized trials for other crop types, such as ornamentals, be included in the further development of the guidance.

81. The TWO considered document TWO/45/27 "Revision of Document TGP/14: Section 2: Botanical Terms, Subsection 2: Shapes and Structures".

82. The TWO agreed with the text in relation to Section 2: paragraph 2.8 "Perspective from which to observe plant shapes", as set out in Annex I of document TWO/45/27, paragraph 2.8, as follows: "Where appropriate, an explanation of the perspective from which to observe the shape should be included in the Test Guidelines."

83. The TWO agreed that, in the revision of "Components of shape: states of expression for ratios", it would be more appropriate to use the states "very low to very high" in place of "very high to very low" when considering ratio length/width. If the characteristic ratio length/width was presented as shape, then the states would be "very compressed to very elongated" in place of "very elongated to very compressed", with the appropriate explanation.

84. The TWO considered document TWO/45/25 regarding "Revision of document TGP/14: Section 2: Botanical Terms Subsection 3: Color" and made further comments on the draft, including the following:

- The explanation in Part 1: Introduction and 2.3.1 of TWO/45/25: Annex to read: "For describing colors of plants in Test Guidelines, it is generally the practice to look at one or more of the three elements of color, separately or in combination."
- Part III, 3.1 to read: "The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, [the darkest color] / [the color...[location]...] is considered to be the main color."
- Part III, 3.5.1 to include: "Variegation consists of color, color distribution and pattern. Depending on the species concerned, it may not be necessary for all components to be described." Also, the examples for variegation from 4.2.1.8 should be moved to this section.

85. The TWO noted the information on variety description databases contained in documents TWO/45/6 and TWO/45/6 Add. "Variety Description Databases", including the presentation provided by an expert from France, and highlighted the importance of the study in the future harmonization of variety descriptions.

86. The TWO considered document TWO/45/19 "Webcasting of UPOV Sessions" and noted that webcasting was, potentially, a useful tool for subgroup discussions.

87. The TWO noted the revision of the "Practical Guidance for Drafters (Leading Experts) of UPOV Test Guidelines", Section "Test Guidelines for Discussion at the Technical Working Party", presented on the basis of document TC/48/3, as available on the TG Drafters webpage. The TWO also noted that if a Leading Expert of a draft Test Guidelines could not attend a TWP session the Test Guidelines could be withdrawn from the agenda of that session.

88. The TWO received a presentation of a project concept for a web-based Test Guidelines Template (TG Template) for drafters of Test Guidelines by the Office of the Union. The TWO noted the features of the proposed TG Template and discussed possibilities on the use of such a template and related databases also for the development of national guidelines. The TWO supported the initiative and agreed to the continuation of work on the TG Template.

89. The TWO agreed that the partial revision of the Test Guidelines for African Lily (document TG/266/1), as amended by the TWO, should be put forward for adoption by the Technical Committee.
90. The TWO agreed to submit nine Test Guidelines to the Technical Committee for adoption: *Dianella*, *Eucalyptus* (part of genus only), *Gladiolus* (Revision), *Hebe*, *Lobelia*, *Lomandra*, *Osteospermum*, *Phalaenopsis* and Tree Peony. At its forty-sixth session to be held in 2013, the TWO planned to discuss 15 Test Guidelines, consisting of two revisions and 13 new Test Guidelines.
91. The TWO agreed to discuss the following draft Test Guidelines at its forty-sixth session:
- *Abelia*
 - *Aglaonema* Schott.
 - *Aloe*
 - *Campanula* L.
 - China Aster (*Callistephus chinensis* (L.) Nees)
 - *Cordyline*
 - *Cosmos* (*Cosmos* Cav.)
 - *Dianthus* (Revision) (TG/25/9)
 - *Grevillea*
 - *Hosta*
 - Lilac (*Syringa* L.)
 - *Mandevilla*
 - Regal Pelargonium (Revision) (TG/109/3)
 - *Salvia*
 - *Zinnia* L.
92. At the invitation of Australia, the TWO agreed to hold its forty-sixth session in Melbourne, Australia, from April 22 to 26, with the Preparatory Workshop on April 21, 2013.
93. The TWO proposed to discuss the following items at its next session:
1. Opening of the Session
 2. Adoption of the agenda
 3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers
 - (b) Reports on developments within UPOV
 4. Molecular techniques
 5. TGP documents
 6. Variety denominations
 7. Information and databases
 - (a) UPOV information databases
 - (b) Variety description databases
 - (c) Exchangeable software
 - (d) Electronic application systems
 8. Uniformity assessment
 9. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)
 10. Discussion on draft Test Guidelines (Subgroups)
 11. Recommendations on draft Test Guidelines
 12. Guidance for drafters of Test Guidelines
 13. Date and place of the next session
 14. Future program
 15. Report on the session (if time permits)
 16. Closing of the session
94. On the afternoon of August 8, 2012, the TWO visited the facilities of the Kim Jeong Moon Aloe Co.Ltd., Seogwipo-si, a botanical garden and research facility for Aloe.

Technical Working Party for Vegetables (TWV)

95. The TWV held its forty-sixth session at Floriade, near the city of Venlo, Netherlands from June 11 to 15, 2012. This session was held at the World Horticultural Exposition "Floriade", a venue for the horticultural sector. The session was chaired by Mr. François Boulineau (France), Chairman of the TWV.

96. The meeting was attended by 43 participants, from 16 members of the Union and two observer organizations. The Preparatory Workshop was held during the afternoon of June 10, with training on Test Guidelines preparation, and was attended by 15 participants.

97. In accordance with the agenda, a number of TGP documents were discussed: TGP/7 "Development of Test Guidelines", TGP/8 "Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability" and TGP/14 "Glossary of Terms Used in UPOV Documents".

98. A discussion took place on the level of uniformity for disease resistances on the basis of document TWV/46/34 "Levels of uniformity according to the state of expression of obligatory disease resistance characteristics and varieties not bred for having such disease resistance" and a presentation made by an expert from the European Union.

99. Concerning the guidance of data analysis for blind randomized trials (see document TWV/46/17 "Revision of Document TGP/8: Part II: Techniques Used in DUS Examination, New Section: Guidance of Data Analysis for Blind Randomized Trials"), the TWV noted the importance of this approach for breeders and the contribution the method made to the system. It recommended that the guidance be further developed on the basis of document TWV/46/17.

100. Concerning variety description databases (see document TWV/46/6 "Variety Description Databases"), the TWV agreed that the work on the project for Pea database should be continued and that it would be a good example for the development of similar databases for other crops. It also agreed that it would be a good basis for a future revision of the Test Guidelines for Pea with respect to grouping characteristics.

101. During the forty-sixth session of the TWV, 13 Test Guidelines were discussed. The TWV agreed to submit nine Test Guidelines to the Technical Committee: three new: Coriander, Oyster Mushroom, Tomato Rootstocks and six revisions: Endive, Lettuce, Opium/Seed Poppy, Spinach, Tomato and Watermelon.

102. The TWV agreed to discuss the following draft Test Guidelines at its forty-seventh session:

- Bottle Gourd, Calabash (*Lagenaria siceraria* (Molina) Standl.)
- Brown Mustard (*Brassica juncea* (L.) Czern)
- Cassava (*Manihot esculenta* Crantz.)
- Chives (*Allium schoenoprasum* L.) (Revision)
- Cucumber (*Cucumis sativus* L.) (Partial revision: existing disease resistance)
- *Cucurbita maxima* x *Cucurbita moschata* (Rootstocks)
- Leaf Cichory (*Cichorium intybus* L. var. *foliosum* Hegi) (Revision)
- Leaf Cichory (*Cichorium intybus* L. var. *foliosum* Hegi) (Revision)
- Lentil (*Lens culinaris* Medik.) (Revision)
- Melon (*Cucumis melo* L.) (Partial revision: existing disease resistance)
- Pea (*Pisum sativum* L.) (Partial revision: grouping characteristics)
- Sweet Pepper, Hot Pepper, Paprika, Chili (*Capsicum annuum* L.) (Partial revision: existing disease resistance)
- Witloof Chicory (*Cichorium intybus* L. partim) (Revision)

103. At the invitation of Japan, the TWV agreed to hold its forty-seventh session in Nagasaki from May 20 to 24, with the Preparatory Workshop on May 19, 2013.

104. The TWV proposed to consider the following items at its next session:

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection
 - (a) Reports from members and observers

- (b) Reports on developments within UPOV
- 4. Molecular techniques
- 5. TGP documents
- 6. Variety denominations
- 7. Information and databases
 - (a) UPOV information databases
 - (b) Variety description databases
 - (c) Exchangeable software
 - (d) Electronic application systems
- 8. Uniformity assessment
- 9. Levels of Uniformity According to the State of Expression of Obligatory Disease Resistance Characteristics and Varieties not bred for having such Disease Resistance (document to be prepared by the European Union)
- 10. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)
- 11. Discussion on draft Test Guidelines (Subgroups)
- 12. Recommendations on draft Test Guidelines
- 13. Guidance for drafters of Test Guidelines
- 14. Date and place of the next session
- 15. Future program
- 16. Report on the session (if time permits)
- 17. Closing of the session

105. On the afternoon of June 13, 2012, the TWV visited the facilities of Nunhems Netherlands B.V., the vegetable and seed business of Bayer CropScience, in Nunhem. The TWV was welcomed by Mr. Uwe Dijkshoorn, Brand Manager, and visited several stations including the processing center, seed conditioning, osmopriming, pelleting and coating areas. It also received information on the asparagus breeding work of Nunhems.

Matters arising from the Technical Working Parties

*106. The TC considered document TC/49/3.

I. MATTERS FOR INFORMATION AND FOR A POSSIBLE DECISION TO BE TAKEN BY THE TECHNICAL COMMITTEE

Guidance for drafters of Test Guidelines

*107. The TC noted the comments of the TWPs, at their sessions in 2012, on revised “Practical Guidance for Drafters (Leading Experts) of UPOV Test Guidelines”, Section “Test Guidelines for Discussion at the Technical Working Party”, as set out in Annex I to document TC/49/3.

*108. The TC agreed that, in general, Test Guidelines should be withdrawn from discussion in the TWPs if the Leading Expert was not present at the session, unless a suitable alternative expert could be arranged to act as the Leading Expert sufficiently in advance of the session, or unless the Leading Expert was able to attend by electronic means. The TC agreed that guidance in that regard should be included in a future revision of document TGP/7, Section 2.2.5.3 “Requirements for Draft Test Guidelines to be considered by the Technical Working Parties”.

*109. The TC agreed that it would not be appropriate to acknowledge the name of the Leading Expert in the draft or adopted Test Guidelines, because the Leading Expert was acting on behalf of a member of the Union rather than in an individual capacity. The TC also noted that there was often more than one expert involved in the preparation of Test Guidelines. For the purposes of effective communication, the TC recalled that the name and e-mail address of the Leading Expert was indicated in the TWP report and in the TG drafters’ webpage.

Web-based TG Template

*110. The TC received a presentation on the project for the development of a web-based TG Template by the Office of the Union and an expert from Australia and noted that a copy of the presentation would be provided in an addendum to document TC/49/3. The Vice Secretary-General reported that it was planned to develop a prototype for testing by interested experts by the end of 2013.

*111. The TC expressed its support for the project, noting that the template would provide sufficient flexibility for drafters of Test Guidelines to introduce proposals that were not covered by existing standard wording. It noted the comments of the TWPs at their sessions in 2012 on the project and noted the need to retain flexibility in the structure for further development of Test Guidelines by UPOV members.

Experiences with new types and species

*112. The TC noted the information concerning new types and species, as set out in document TC/49/3.

Levels of Uniformity According to the State of Expression of Obligatory Disease Resistance Characteristics and Varieties not bred for having such Disease Resistance

*113. The Delegation of the European Union informed the TC that, due to recent developments, data on "Levels of Uniformity According to the State of Expression of Obligatory Disease Resistance Characteristics and Varieties not bred for having such Disease Resistance" from members of the European Union, would not be presented at the forty-seventh session of the TWV and would be presented at a later session.

Data Loggers

*114. The TC agreed to request the Office of Union to issue a new circular concerning hand held data capture devices, inviting further entries in advance of the thirty-first session of the TWC.

Survey to seek views on the effectiveness of the Technical Working Parties

*115. The TC received presentations by the Office of the Union on a survey of participants in the TWO, at its forty-fifth session held in Jeju, Republic of Korea, from August 6 to 10, 2012, and in the TWF, at its forty-third session, held in Beijing, China, from July 30 to August 3, 2012, and an analysis of participation in the TC and the TWPs, copies of which it noted would be provided in an addendum to document TC/49/3.

*116. The TC noted the following proposals concerning possible means of improving the effectiveness of the TWPs, as a basis for future consideration:

(a) the possible benefits of regional distribution of the TWP venues within a year, in order to maximize opportunities for participation;

(b) inviting the TWPs to consider modifying the length (shorten or lengthen) of the TWP sessions according to the agenda and number of Test Guidelines to be discussed;

(c) providing a summary of the main changes to, and key features of, relevant TGP documents (e.g. TGP/7, TGP/8 and TGP/14), under agenda item 3(b) "Reports on developments within UPOV";

(d) preparing a "quick reference" guide document for TWP participants with extracts from, for example, documents TGP/7 and TGP/14, covering frequently arising matters in the Test Guidelines (e.g. ratio/shape, color, notes, types of expression, method of observation);

(e) adding a decision paragraph in the TWP documents, to help to reach a clear conclusion on important points; and

(f) inviting the TWPs to review the results of the survey of the TWO and TWF participants, at their sessions in 2013.

*117. In addition, the TC agreed that consideration should be given to the organization of subgroups for specific matters, e.g. TGP document subgroups and to the holding of Technical Working Parties in consecutive weeks, such as was arranged for the TWO and TWF.

*118. The TC agreed to the proposal for the Office of the Union to organize a survey:

- (a) for participants at the TWP sessions in 2013, as proposed in Annex III of document TC/49/3;
 - (b) for participants at the Preparatory Workshops in 2013, as explained in document TC/49/10;
 - (c) for participants at the forty-ninth session of the TC as proposed in Annex IV of document TC/49/3;
- and
- (d) for those members of the Union that did not attend the TC and TWP sessions.

*119. The TC agreed that consideration of possible means of improving the effectiveness of the TWPs should be deferred until its fiftieth session in order to consider the results of the surveys above.

*120. The TC agreed that it would be important to survey the members of the Union that had not attended the TC and the TWPs in order to understand the reasons why they had chosen not to attend.

II. MATTERS FOR INFORMATION

*121. The TC noted the matters for information provided in document TC/49/3.

TGP documents

*122. The TC considered the following documents in conjunction with document TC/49/5.

(a) NEW TGP DOCUMENT

TGP/15 ~~[New Types of Characteristics]~~ [Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)]

*123. The TC considered document TGP/15/1 Draft 4.

*124. The TC agreed, subject to agreement by the CAJ at its sixty-seventh session, to be held in Geneva on March 21, 2013, to submit document TGP/15/1 Draft 5 "Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)" as the basis for adoption of TGP/15 by the Council, at its forty-seventh session, to be held on October 24, 2013. The TC noted that the editing of the original English text and the French, German and Spanish translations would be checked by the relevant members of the Editorial Committee (TC-EDC) prior to submission of the draft of document TGP/15/1 to the Council.

*125. The TC noted that document TGP/15/1 could be revised in the future, for instance to incorporate additional examples for the models.

(b) REVISION OF TGP DOCUMENTS

TGP/14: Glossary of Terms Used in UPOV Documents

Revision of existing sections of document TGP/14: Section 2: Botanical Terms, Subsection 2: Shapes and Structures

Revision of document TGP/14: Section 2: Botanical Terms, Subsection 3: Color

*126. The TC considered documents TC/49/35 and TC/49/36.

*127. The TC agreed, subject to agreement by the CAJ at its sixty-seventh session, to be held in Geneva on March 21, 2013, to invite the Council to adopt document TGP/14/2 "Glossary of Terms Used in UPOV

Documents”, at its forty-seventh session, to be held on October 24, 2013, on the basis of documents TC/49/35 and TC/49/36, subject to the following amendments:

document TC/49/35, Annex I, Section 1.5	to amend “narrow” and “broad” to “long” and “short”
document TC/49/36, Part IV, 4.1 “Schematic overview” and 4.2.1.2	to amend “sharply” to “sharp”

*128. The TC noted that the updating of definitions of terms and indices, and the checking of the French, German and Spanish translations of the original English text by the relevant members of the TC-EDC, would be done prior to submission of the draft of document TGP/14/2 to the Council.

TGP/0: List of TGP documents and latest issue dates

*129. The TC noted that the Council would be invited to adopt document TGP/0/6, in order to reflect the adoption of documents TGP/15/1 and TGP/14/2.

TGP/7: Development of Test Guidelines

Revisions on which the Technical Committee has Previously Reached a Conclusion

Summary of revisions agreed for document TGP/7 Development of Test Guidelines

*130. The TC considered document TC/49/16.

*131. The TC noted the following matters on which the TC had previously reached a conclusion with regard to a future revision of document TGP/7 “Development of Test Guidelines”:

Coverage of Types of Varieties in Test Guidelines

(see document TC/47/26 “Report on the Conclusions”, paragraph 54)

Selection of Asterisked Characteristics

(see document TC/47/26 “Report on the Conclusions”, paragraph 59)

Standard References in the Technical Questionnaire

(see document TC/47/26 “Report on the Conclusions”, paragraph 68)

Applications for Varieties with Low Germination

(see documents TC/47/26 “Report on the Conclusions”, paragraph 60 and TC/48/22 “Report on the Conclusions”, paragraphs 38 and 39)

Procedure for the Development of Test Guidelines

(see document TC/48/22 “Report on the Conclusions”, paragraph 48)

*132. The TC agreed to the following text for GN 7 (TG Template: Chapter 2.3) “Quantity of plant material required”:

“The drafter of the Test Guidelines should consider the following factors when determining the quantity of material required:

- (i) Number of plants/ parts of plants to be examined
- (ii) Number of growing cycles
- (iii) Variability within the crop
- (iv) Additional tests (e.g. resistance tests, bolting trials)
- (v) Features of propagation (e.g. cross-pollination, self-pollination, vegetative propagation)
- (vi) Crop type (e.g. root crop, leaf crop, fruit crop, cut flower, cereal, etc.)
- (vii) Storage in variety collection
- (viii) Exchange between testing authorities
- (ix) Seed quality (germination) requirements
- (x) Cultivation system (outdoor/glasshouse)

- (xi) Sowing system
- (xii) Predominant method of observation (e.g. MS, VG)

"In general, in the case of *plants* required only for a single growing trial (e.g. no plants required for special tests or variety collections), the number of plants requested in Chapter 2.3 often corresponds to the number of plants specified in Chapters 3.4 "Test Design" and 4.2 "Uniformity". In that respect, it is recalled the quantity of plant material specified in Chapter 2.3 of the Test Guidelines is the minimum quantity that an authority might request of the applicant. Therefore, each authority may decide to request a larger quantity of plant material, for example to allow for potential losses during establishment (see GN 7 (a)). In relation to the number of plants specified in Chapter 2.3, the number of plants/parts of plant to be examined (Chapter 4.1.4), should at least allow for the possibility of off-type plants within the tolerated number to be excluded from observations."

*133. The TC agreed that it would not be appropriate to seek to develop Additional Standard Wording (ASW) for Chapter 2.3 "Minimum Quantity of Plant Material".

*134. The TC noted that a summary of information on adopted Test Guidelines would be prepared by the Office of the Union for presentation to the Subgroups of Interested Experts.

*135. The TC recalled that it had previously agreed that the guidance in document TGP/7, GN 7 should be extended to encourage Leading Experts to consider the quantity of plant material required for similar crops in order to seek consistency as far as that was appropriate. In that regard, it had agreed that a summary of the following information should be prepared by the Office of the Union for all adopted Test Guidelines and made available to Leading Experts on the TG Drafters' webpage in order that information on Test Guidelines for similar crops could be presented to the Subgroup of Interested Experts by the Leading Expert

- (a) Chapter 2.3 Minimum quantity of plant material to be supplied by the applicant
- (b) Chapter 3.1 Number of growing cycles
- (c) Chapter 3.4.1 Each test should be designed to result in a total of at least X plants
- (d) Chapter 4.1.4 Number of plants / parts of plants to be examined for distinctness
- (e) Chapter 4.2 Number of plants to be examined for uniformity
- (f) Number of plants for special tests (e.g. disease resistance)

(see document TC/47/26 "Report on the Conclusions", paragraph 57).

Revisions to be considered by the Technical Committee

Guidance on number of plants to be examined (for distinctness)

*136. The TC considered document TC/49/17.

*137. The TC agreed to the following text as the basis for the inclusion of a Guidance Note in a future revision of document TGP/7, Section 4.1.4, and in a future revision of TGP/9: "Examining Distinctness":

"1. The observation of the '*typical*' expression of characteristics of a variety in a given environment is essential for the assessment of distinctness. The precision of the observed (mean) expression of the varieties to be compared is a critical element for the consideration of whether a difference is a clear difference.

"2. In the case of qualitative characteristics, a low number is sufficient to identify the expression of a variety. In general, the number of plants for the assessment of distinctness is not a limiting factor for the number of plants in the trial. Thus, the number of plants for the assessment of qualitative characteristics is not essential for harmonization.

"3. In case of quantitative characteristics (and pseudo-qualitative characteristics), the variation within the variety has to be taken into account for defining a clear difference (by expert judgment or exact statistics). Due to the relation between variation within the varieties and the required difference to be considered as a clear difference for the establishment of distinctness the precision of records is important. The precision of records (mean values) is influenced by the sample size. Therefore, the appropriate sample size should be indicated in the Test Guidelines for the purpose of harmonization.

"4. The following general principals should be taken into account:

"Considerations for the number of plants to be observed for distinctness in case of QN (in some cases PQ)

- (a) Observation on the plot as a whole (VG/MG)
– the indicated number should be considered as minimum number
- (b) Observation on subsample from plot (VG/MG)
– the indicated number should be considered as minimum number
- (c) Observations on individual plants (VS/MS)
– the number of plants is important for precision of record
– the specific number should be indicated

“Considerations for the number of plants for candidate varieties and varieties to be compared with the candidate varieties

“5. The required precision of records depends on the size of the difference between the candidate variety and the varieties of common knowledge. If two varieties are very similar it is important to ensure the same precision of the records for both varieties. The number of plants indicated in the Test Guidelines applies to both the candidate variety and the similar variety of common knowledge. In other cases, it may be possible to include in the trial a lower number of plants for the variety of common knowledge, provided that uniformity does not have to be assessed for that variety, i.e. varieties in the variety collection.”

Guidance for method of observation

*138. The TC considered document TC/49/18.

*139. The TC agreed with the proposed revision of document TGP/7, GN 25 (TG Template: Chapter 7: column 2, header row 1 or 2) “Recommendations for conducting the examination”, on the basis of the following text, for inclusion in a future revision of document TGP/7:

“This box provides the key for guidance on conducting the examination. For example, recommendations on the method of observation (e.g.: visual assessment or measurement; observation of single plants or a group of plants) or type of plot (e.g.: spaced plants; row plot; drilled plot; special test) may be provided. ASW 4(b) provides possible standard wording.

“Method of observation (visual or measurement)

“1. Document TGP/9 “Examining Distinctness” explains the following with regard to method of observation:

‘4.2 Method of observation (visual or measurement)

‘The expression of characteristics can be observed visually (V) or by measurement (M).

‘4.2.1 Visual observation (V)

‘4.2.1.1 ‘Visual’ observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts).

[...]

‘4.2.2 Measurement (M)

‘Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.’

“2. The following examples are intended to illustrate the ways of considering the method of observation for characteristics such as time of flowering and counts.

“(a) Time of Flowering

Time of flowering		
QN	early	3
	medium	5
	late	7

“Scenario A (Explanation: the time of flowering is assessed by date)”

“3. The DUS trial is visited on various dates to assess whether each variety has reached the time of flowering. The assessment of whether 50% of plants have emitted the stigma in the main panicle is made by counting the number of plants that have emitted their stigmas to determine the percentage, or by an overall assessment of the percentage.

“4. In this case, the method of observation would be measurement (M), because the determination of the state of expression will be according to the date (= measurement on a time scale) at which a variety was found to have reached the time of flowering. A date is recorded for each variety, which is transformed into notes after assessment of all varieties.

“Scenario B (Explanation: the time of flowering is assessed by comparison with other varieties)”

“5. The DUS trial is visited on one or more occasions to assess the time of flowering by reference to example varieties.

“6. In this scenario, the time of flowering is a visual (V) observation because an overall visual observation is made as to the time of flowering for a particular variety by reference to the state of flowering of example varieties, without reference to a date of visit. A note is recorded for each variety in relation to the variation between varieties (e.g. early, medium, late).

“(b) Number

“7. If a characteristic is observed by counting (for example ‘Number of lobes’ observed by counting), the assessment is a measurement (M). If a characteristic is observed by estimation (for example ‘Number of lobes’ observed by estimation), the assessment is a visual observation (V).”

Example varieties

*140. The TC considered document TC/49/19.

*141. The TC agreed to the revision of document TGP/7 “Annex 3: Guidance Notes (GN) for the TG Template, GN 28 (TG Template: Chapter 6.4) – Example varieties”, on the basis of the Annex of document TC/49/19, for inclusion in a future revision of document TGP/7.

Providing photographs with the Technical Questionnaire

*142. The TC considered document TC/49/20.

*143. The TC agreed to the new Additional Standard Wording (ASW) and Guidance Note (GN) for “providing photographs with the Technical Questionnaire”, on the basis of the Annex to document TC/49/20, for inclusion in a future revision of document TGP/7.

*144. The TC agreed that the “Guidance for Providing Photographs with the Technical Questionnaire” should be provided to members of the Union by means of a link to the relevant part of the UPOV website. That link would be provided in conjunction with ASW 16 in the Technical Questionnaire, section 7. The TC noted that the link could be deleted by members of the Union when developing authorities’ own test guidelines. The TC also agreed to add the guidance in document TGP/9 Section 2.6 “Photographs” in a future revision of that document.

TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability

*Revision of document TGP/8: Part I: DUS Trial Design and Data Analysis,
New Section 2: Data to be recorded*

*145. The TC considered document TC/49/21.

*146. The TC agreed the proposed text for New Section 2: “Data to be Recorded” be included in a future revision of document TGP/8: Part I: Trial Design and Data Analysis, as set out in Annex to document TC/49/21, subject to revision of TGP/8: Part II, Sections 3, Section 4 and Section 10, as set out in annexes to documents TC/49/24, TC/49/26 and TC/49/27.

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

*147. The TC considered document TC/49/22.

*148. The TC agreed to request the expert from the Netherlands to prepare a new draft section on “Minimizing the Variation due to Different Observers” for consideration by the TWPs at their sessions in 2013, on the basis of the comments by the TWPs at their sessions in 2012, and the TC-EDC at its meeting in January 2013, and, in particular, in order to include guidance on PQ and QN/MG characteristics.

*Revision of document TGP/8: Part I: DUS Trial Design and Data Analysis,
New Section: Reduction of Size of Trials*

*149. The TC considered document TC/49/23.

*150. The TC agreed that the proposed text for a new section on “Reduction of Size of the Trials”, on the basis of the Annex of document TC/49/23, be included in a future revision of document TGP/8, after deletion of the first sentence in paragraph 1.6, which reads as follows “[t]his section is of relevance to the reader interested in technical details”.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
Section 3: The Combined-Over-Years Criteria for Distinctness (COYD)*

*151. The TC considered document TC/49/24.

*152. The TC agreed that the proposed revised text, as set out in the Annex to document TC/49/24, be included in a future revision of document TGP/8: Part II: Techniques Used in DUS Examination, Section 3: “The Combined–Over-Years Criteria for Distinctness (COYD)”.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
Section 3, Subsection 3.6: Adapting COYD to special circumstances*

*153. The TC considered document TC/49/25.

*154. The TC agreed that the text proposed in the Annex to document TC/49/25, be included as Subsection 3.6 in a future revision of document TGP/8: Part II: Techniques Used in DUS Examination, Section 3.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
Section 4: 2x1% Method- Minimum Number of Degrees of Freedom for the 2x1% Method*

*155. The TC considered document TC/49/26.

*156. The TC agreed that the proposed revised text, as set out in the Annex to document TC/49/26, be included in a future revision of document TGP/8: Part II: Techniques Used in DUS Examination, Section 4.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
New Section 10: Minimum Number of Comparable Varieties for the Relative Variance Method*

*157. The TC considered document TC/49/27.

*158. The TC noted the proposed amendments of revision of Section: 10 of document TGP/8, as set out in Annex II of document TC/49/27.

*159. The TC agreed to invite an expert from Australia to prepare a new draft of Section: 10 of document TGP/8 with a recommendation on the minimum number of comparable varieties, for consideration by the TWPs at their sessions in 2013. The Delegation of Australia explained that the minimum number was one.

*Revision of document TGP/8: Part II: Techniques used in DUS Examination,
New Section 11: Examining DUS in Bulk Samples*

*160. The TC considered document TC/49/28.

*161. The TC agreed to replace the proposed text for new Section 11 “Examining DUS in Bulk Samples” in the Annex to document TC/49/28 with guidance on the use of characteristics examined on the basis of bulk samples, in order to ensure that the characteristics fulfill the basic requirements for a characteristic. In particular, it agreed that Leading Experts of Test Guidelines could be requested to provide data from different years to demonstrate that the expression of the characteristic is “sufficiently consistent and repeatable in a particular environment”. It was further agreed that, on the basis of information provided to the TWPs, consideration could be given to statistical analysis for such characteristics.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
New Section: Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions*

*162. The TC considered document TC/49/29.

*163. The TC requested the Office of the Union to request experts from the United Kingdom, France and Germany, or other members of the Union, to provide a common data set of self-pollinated and/or vegetatively propagated varieties for performing a practical exercise.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
New Section: Guidance of Data Analysis for Blind Randomized Trials*

*164. The TC considered document TC/49/30.

*165. The TC agreed to the preparation of a new draft for a new Section on “Guidance for Data Analysis for Blind Randomized Trials” by an expert from France, on the basis of the Annex to document TC/49/30 and the comments by the TWPs at their sessions in 2012, and the TC-EDC at its meeting in 2013, for consideration by the TWPs at their sessions in 2013.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
New Section: Guidance for Development of Variety Descriptions*

*166. The TC considered document TC/49/31.

*167. The TC agreed that the information provided in Annex I of document TC/49/31 should be combined with the information in document TC/49/29 and to discontinue the development of a separate section.

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

*168. The TC considered document TC/49/32.

*169. The TC agreed that it would not be appropriate to continue the development of a section on “Statistical Methods for Visually Observed Characteristics”, unless new guidance was provided beyond the methods already provided in document TGP/8. In that regard, it requested the TWC to clarify if it proposed to modify an existing method or provide a new additional method.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
New Section: Examining Characteristics Using Image Analysis*

*170. The TC considered document TC/49/33.

*171. The TC noted the information on software and hardware used for image analysis, as set out in Annex I to document TC/49/33.

*172. The TC noted that the recommendation of the TWC concerning the inclusion of the AIM software from France in document UPOV/INF/16 “Exchangeable Software,” and the request for the Office of the Union to translate the AIM software into English, would be considered in document TC/49/12.

*Revision of document TGP/8: Part II: Techniques Used in DUS Examination,
New Section: Statistical Methods for Very Small Sample Sizes*

*173. The TC noted the information provided in document TC/49/34.

*174. The TC agreed not to pursue a proposed new section: “Statistical Methods for Very Small Sample Sizes” in document TGP/8.

(c) NEW PROPOSALS FOR FUTURE REVISION OF TGP DOCUMENTS

TGP/7: Development of Test Guidelines

Duration of test

*175. The TC agreed that no further information needed to be provided with regard to duration of test as set out in Chapter 3.1 and 4.1.2. as follows:

Chapter 3.1: “The minimum duration of test should normally be two independent growing cycles.”

Chapter 4.1.2: “The differences observed between varieties may be so clear that more than one growing cycle is not necessary.”

*176. In that regard, the TC agreed that Chapters 3.1 and 4.1.2 were not contradictory, as the first relates to the examination of distinctness, uniformity and stability, and the development of a variety description whereas the latter refers only to distinctness.

Growing cycle

*177. The TC invited the TWF to consider whether it would be necessary to develop a new ASW for a growing cycle for tropical species.

Source of propagating material

*178. The TC noted that information on the influence of the method of vegetative propagation and origin of propagating material, taken from within the plant, on future plant development and characteristic expression and how this might be addressed in Test Guidelines would be presented to the TWF and TWO at their sessions in 2013 by experts from the European Union.

Number of plants required for description

*179. The TC agreed that it was not necessary to provide further guidance on the number of plants required for description in a future revision of document TGP/7 because the Test Guidelines state that “The purpose of these guidelines (“Test Guidelines”) is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.”.

Growth stages

*180. The TC agreed that clarification should be provided in a future revision of document TGP/7 with regard to the inclusion of growth stage keys in Chapter 8 of the Test Guidelines and requested the Office of the Union to prepare draft guidance for consideration by the TWPs at their sessions in 2013.

TGP/9: Examining Distinctness

*181. The TC agreed that further guidance be provided on the number of plants to be examined for distinctness in a future revision of document TGP/9, on the basis of the guidance provided in document TC/49/17, Annex II.

TGP/14: Glossary of Terms Used in UPOV Documents

*182. The TC agreed that a definition for “dot” be provided in a future revision of document TGP/14 Section 2: “Botanical Terms, Subsection 3: Color” and requested the Office of the Union to prepare a draft for consideration by the TWPs at their sessions in 2013.

*183. The TC agreed that guidance should be provided on the risks in providing illustrations of color in Test Guidelines. However, the TC agreed that such guidance should be provided in a future revision of document TGP/7 rather than in document TGP/14. The TC requested the Office of the Union to prepare a draft for consideration by the TWPs at their sessions in 2013.

Program for the Development of TGP Documents

*184. The TC approved the program for the development of TGP documents, as set out in the Annex to document TC/49/5, subject to its conclusions on all matters concerning TGP documents at its forty-ninth session.

Variety Denominations

*185. The TC considered document TC/49/8.

*186. The TC noted the developments concerning potential areas for cooperation between UPOV and the International Commission for the Nomenclature of Cultivated Plants of the International Union for Biological Sciences (IUBS Commission) and the International Society for Horticultural Science Commission for Nomenclature and Cultivar Registration (ISHS Commission), as set out in paragraphs 24 and 25 of document TC/49/8.

Information and Databases

(a) UPOV information databases

*187. The TC considered document TC/49/6 and received a demonstration of the PLUTO Plant Variety Database by Mr. Glenn Mac Stravic, Brand Database Section, WIPO.

UPOV CODE SYSTEM

*188. The TC noted the amendments to UPOV codes and the plan of the Office of the Union to prepare tables of UPOV code additions and amendments, for checking by the relevant authorities, for each of the TWPs sessions in 2013.

PLANT VARIETY DATABASE

*189. The TC noted the following developments concerning the program for improvements to the Plant Variety Database with regard to the features of the PLUTO database.

Information on the latest date of submission by the contributors

*190. For the short-term, information on the latest date of submission by the contributors was provided for the PLUTO database in the form of a pdf document. However, in the longer term, it was planned that the date of submission would be provided for individual data retrieved from the database.

Search rules

*191. The TC noted the demonstration of the search rules for the PLUTO database, including the new page that was provided for searching variety denominations.

Facility to save search settings

*192. The TC noted the demonstration of the possibilities to save search settings for the PLUTO database.

User registration

*193. The TC noted the demonstration of the registration system for users of PLUTO, which had been introduced in order that the use of PLUTO could be monitored, with a view to using that feedback for future improvements. It was noted that PLUTO would still be freely accessible.

Alphabets

*194. The TC noted that the necessary arrangements for the inclusion of data in the original alphabet, in addition to the data being provided in Roman alphabet, had been made.

*195. The TC noted the information on the contribution of data and the provision of assistance to contributors, as set out in Annex IV to document TC/49/6.

SURVEY OF MEMBERS OF THE UNION ON THEIR USE OF DATABASES AND ELECTRONIC APPLICATION SYSTEMS

*196. The TC noted the plans of the Office of the Union to conduct a survey of members of the Union on their use of databases for plant variety protection purposes and on their use of electronic application systems.

(b) Variety description databases

*197. The TC considered document TC/49/9 and received a presentation by Mr. François Boulineau (France).

*198. The TC noted the developments on variety description databases, as set out in document TC/49/9.

*199. The TC noted that the results of the study on Pea would be presented to the TWA and the TWV in order to:

- (i) select characteristics to be used as grouping characteristics according to their qualities (discriminating power, distortion, use);
- (ii) develop a procedure to improve the pea database; and
- (iii) consider making the pea database available to all examination offices.

*200. The TC agreed that the results of the study should be presented to other TWPs for their comments on the approach for managing variety collections and noted that the TWF would consider the results of the model study on Apple, as presented in document TC/41/9 "Publication of Variety Descriptions".

(c) Exchangeable Software

*201. The TC considered documents TC/49/12 and TC/49/12 Add..

I. REVIEW OF REQUIREMENTS FOR EXCHANGEABLE SOFTWARE

*202. The TC reviewed the title of document UPOV/INF/16 "Exchangeable Software" and Section "1. Requirements for exchangeable software" and agreed that these texts should remain unchanged on the basis that the document concerned software that had been developed or customized by a member of the Union for UPOV purposes. However, it agreed that it would be useful to develop a separate information document that would allow members of the Union to provide information on the use of non-customized software and equipment (e.g. data loggers) that was used by members of the Union.

II. SOFTWARE PROPOSED FOR INCLUSION IN UPOV/INF/16

*203. The TC agreed with the recommendation of the TWC concerning the inclusion of "Information System (IS) used for Test and Protection of Plant Varieties in the Russian Federation" in document UPOV/INF/16, as set out in paragraph 18 of document TC/49/12. The TC also requested the Office of the Union to investigate the possibility of the translation into English of the user interfaces and user manual, on the basis that the Russian Federation would verify the translation provided by the Office of the Union.

*204. The TC agreed with the recommendation of the TWC concerning the inclusion of the AIM software from France in document UPOV/INF/16, as set out in paragraph 19 of document TC/49/12. The TC

requested the Office of the Union to translate the software to English of the user interfaces and user manual, on the basis that France would verify the translation provided by the Office of the Union.

III. INFORMATION ON USE BY MEMBERS

*205. The TC agreed with the inclusion of the information contained in the Annex I to document TC/49/12 Add. for a revision of document UPOV/INF/16 by the Council at its forty-seventh session, to be held in Geneva on October 24, 2013. The TC noted that the comments of the TC would be reported to the CAJ at its sixty-seventh session, to be held in Geneva on March 21, 2013.

*206. The TC noted that Mexico would be invited to present its proposed exchangeable software, as set out in Annex II to document TC/49/12 Add., at the thirty-first session of the TWC for possible inclusion in a future revision of document UPOV/INF/16.

(d) Electronic Application Systems

*207. The TC considered document TC/49/13.

*208. The TC noted the developments concerning the use of standard references of the UPOV Model Application Form in the application forms of members of the Union and the endorsement by the CAJ of the development of prototype electronic form, as set out in document TC/49/13.

Method of Calculation of COYU

*209. The TC considered document TC/49/11.

*210. The TC agreed to request the TWC to continue its work with the aim of developing recommendations to the TC concerning the proposals to address the bias in the present method of calculation of COYU and noted that a document on possible proposals for improvements to COYU would be prepared for the TWC session in 2013.

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

*211. The TC considered document TC/49/14.

*212. The TC noted that the TWC would consider further information on the situations presented in Annex I to IV to document TC/49/14, such as the clarification of whether two growing cycles related to the use of the same sample and were carried out in the same year. The TC noted that the TWC had agreed that more detailed information and further analysis were needed in order to give guidance on consequences on the use of the different approaches. The TWC had further agreed that France, Germany and the Netherlands would present one or more concrete situations in their countries and the statistical basis of their analysis for its next session, and that the statistical basis for the acceptable number of off-types in the subsample of 20 plants used in the context of a sample size of 100 plants (situation D) would be assessed by experts from France and Germany.

*213. The TC agreed that the approach combining the results from two growing cycles, as set out in Annexes I and II, Situation A and B, was not inconsistent with the requirement for "independent" growing cycles. However, it agreed that care would be needed, for example when considering results that were very different in each of the growing cycles, such as when a type of off-type was observed at a high level in one growing cycle and was absent in another growing cycle.

*214. The TC noted that an expert from New Zealand would make a presentation on testing of uniformity of Apple varieties arising from mutation at the TWF session in 2013.

Use of electronic communication for meetings

*215. The TC considered document TC/49/15.

*216. The TC noted that the Consultative Committee, at its eighty-fourth session, held in Geneva on October 31, 2012, had approved the use of web conferencing by UPOV bodies, as considered appropriate

by the UPOV body concerned, to facilitate participation by members of the Union and observers in accordance with the existing procedures. The Consultative Committee had recalled that the procedures concerning the invitations to the sessions of the UPOV bodies were contained in the UPOV Convention, rules of procedure, guidance for members of UPOV on ongoing obligations and related notifications, rules governing the granting of observer status to States, intergovernmental organizations and international non-governmental organizations in UPOV bodies and the rules governing access to UPOV documents. In accordance with those procedures, web conferencing participation would be by means of a password issued to the designated persons in the relevant UPOV body and participation would be monitored by the Office of the Union.

*217. The TC noted that the Consultative Committee, at its eighty-fourth session, had also approved the use of webcasting of sessions of UPOV bodies for viewing by members of the Union and observers in accordance with the existing procedures, as considered appropriate by the UPOV body concerned. The Consultative Committee noted that the procedures concerning the invitations to the sessions of the UPOV bodies were contained in the UPOV Convention, rules of procedure, guidance for members of UPOV on ongoing obligations and related notifications, rules governing the granting of observer status to States, intergovernmental organizations and international non governmental organizations in UPOV bodies and the rules governing access to UPOV documents. In accordance with those procedures, webcasting viewing would be by means of a password issued to the designated persons in the relevant UPOV body and participation would be monitored by the Office of the Union. The TC also noted that the Consultative Committee, at its eighty-fourth session, had agreed that, in all other cases of webcasting, the Consultative Committee would be invited to approve any arrangements for a possible webcast.

Preparatory Workshops

*218. The TC considered document TC/49/10.

*219. The TC noted the report of the preparatory workshops held in 2012.

*220. The TC agreed the proposed program for preparatory workshops for 2013, as set out in paragraphs 8 and 9 of document TC/49/10.

*221. The TC approved the conduct of a survey for the participants of the preparatory workshops of the TWPs, at their sessions in 2013, with a view to improve the effectiveness of the preparatory workshops on the basis of the questionnaire as set out in the Annex to document TC/49/10 with the addition of a question to indicate new subjects that would be of interest. In addition, the TC agreed that a survey should be made of all TWP participants that did not attend the preparatory workshop in order to establish why they did not attend. The TC also agreed that the Office of the Union should consider facilitating participation in the preparatory workshops by electronic means and noted that such an approach might mean that it would be possible to arrange such workshops independently of the TWPs and to cover a broader spectrum of training and information.

Molecular techniques

*222. The TC considered document TC/49/7 and noted that document TGP/15/1 Draft 4 had been considered under agenda item 7 "TGP documents" (see document TC/49/5).

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

*223. The TC agreed to propose to hold a coordinated meeting of the fourteenth session of the BMT with meetings of other relevant international organizations in 2014, as set out in document TC/49/7. It also agreed that, if it was not possible to organize a joint meeting with other organizations in 2014, a meeting of the BMT should be organized in the meantime.

Discussion on molecular techniques

Application of models by members of the Union

Use of characteristic specific molecular markers to assess seasonal type in barley

*224. The TC received a presentation on the use of characteristic specific molecular markers to assess seasonal type in barley by Mr. Andrew Mitchell (United Kingdom).

Applications of molecular data in DUS testing

*225. The TC received a presentation on the application of molecular data in DUS testing by Mr. Joël Guiard (France).

Use of molecular techniques in Brazil

*226. The TC received a presentation on the use of molecular techniques in Brazil by Mr. Fabricio Santana Santos (Brazil).

Use of molecular techniques in the renewal of reference material

*227. The TC received a presentation on the use of molecular techniques in the renewal of reference material by Mr. Kees van Etteken (Netherlands).

Presentation of the situation with regard to molecular techniques in other international organizations

Situation with regard to the use of molecular techniques in relation to seeds in the International Organization for Standardization

*228. The TC received a presentation on the situation with regard to the use of molecular techniques in relation to seeds in the International Organization for Standardization (ISO) prepared by Mr. Michael Sussman (ISO) and presented by Mr. Paul Zankowski (United States of America).

Situation with regard to the use of molecular techniques in the International Seed Testing Association

*229. The TC received a presentation on the situation with regard to the use of molecular techniques in the International Seed Testing Association (ISTA) by Mrs. Rita Zecchinelli (ISTA), during which Mrs. Rita Zecchinelli indicated the support of ISTA for a joint meeting with UPOV.

Situation with regard to use of molecular techniques in the Organisation for Economic Co-operation and Development

*230. The TC received a presentation on the situation with regard to the use of molecular techniques in the Organisation for Economic Co-operation and Development (OECD) by Mr. Michael Ryan (OECD), during which Mr. Ryan indicated the support of OECD for a joint meeting with UPOV.

Discussion

*231. The TC recalled that the BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role is to:

- (i) Review general developments in biochemical and molecular techniques;
- (ii) Maintain an awareness of relevant applications of biochemical and molecular techniques in plant breeding;
- (iii) Consider the possible application of biochemical and molecular techniques in DUS testing and report its considerations to the TC;
- (iv) If appropriate, establish guidelines for biochemical and molecular methodologies and their harmonization and, in particular, contribute to the preparation of document TGP/15 "New Types of Characteristics." These guidelines to be developed in conjunction with the Technical Working Parties;

(v) Consider initiatives from TWPs, for the establishment of crop specific subgroups, taking into account available information and the need for biochemical and molecular methods;

(vi) Develop guidelines regarding the management and harmonization of databases of biochemical and molecular information, in conjunction with the TWC;

(vii) Receive reports from Crop Subgroups and the BMT Review Group;

(viii) Provide a forum for discussion on the use of biochemical and molecular techniques in the consideration of essential derivation and variety identification.

*232. In that regard, it endorsed the initiative for a joint meeting with ISO, ISTA and OECD and including breeders, as a means of supporting the role of the BMT in relation to (i), (ii), (iv), (vi) and particularly (viii) above.

*233. The TC agreed that there was a need to provide suitable information on the situation in UPOV with regard to the use of molecular techniques to a wider audience, including breeders and the public in general. That information should explain the potential advantages and disadvantages of the techniques, and the relationship between genotype and phenotype, which lay behind the situation in UPOV.

Use of DUS test reports by members of the Union²

Introduction

*234. The TC received a presentation on cooperation in DUS examinations by the Office of the Union.

The use of DUS test reports in Australia

*235. The TC received a presentation on the use of DUS test reports in Australia by Mr. Nik Hulse (Australia).

The use of DUS test reports in Brazil

*236. The TC received a presentation on the use of DUS test reports in Brazil by Mr. Fabricio Santana Santos (Brazil).

The use of DUS test reports in the European Union

*237. The TC received a presentation on the use of DUS test reports in the European Union by Mr. Carlos Godinho (European Union).

The use of DUS test reports in France

*238. The TC received a presentation on the use of DUS test reports in France by Mr. Joël Guiard (France).

The use of DUS test reports in Germany

*239. The TC received a presentation on the use of DUS test reports in Germany by Mrs. Beate Rücker (Germany).

The use of DUS test reports in Japan

*240. The TC received a presentation on the use of DUS test reports in Japan by Mr. Kenji Numaguchi (Japan).

² Copies of the presentations made at the session are provided on the UPOV website at http://www.upov.int/meetings/en/details.jsp?meeting_id=28343.

The use of DUS test reports in Mexico

*241. The TC received a presentation on the use of DUS test reports in Mexico prepared by Ms. Enriqueta Molina Macías and Mr. Eduardo Padilla Vaca and presented by Mr. Padilla Vaca (Mexico).

The use of DUS test reports in the Netherlands

*242. The TC received a presentation on the use of DUS test reports in the Netherlands by Mr. Kees van Ettehoven (Netherlands).

Discussion

*243. The TC agreed to invite the Council to consider whether to copy the circular concerning cooperation in examination, e.g. see C/xx/5, to the TC designated persons in order to ensure that the maximum amount of information could be collected.

Test Guidelines

*244. The TC considered document TC/49/2 Rev. 2

*245. The TC adopted the Test Guidelines listed in the table below on the basis of the amendments, as specified in Annex IV to this document, and the linguistic changes recommended by the TC-EDC and agreed that they should be published on the UPOV website at the earliest opportunity:

**	TWP	Document No. N°. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name Nom botanique Botanischer Name Nombre botánico
NEW TEST GUIDELINES							
BR	TWV	TG/CORIA(proj.5)	Coriander, Cilantro, Collender, Chinese parsley	Coriandre	Koriander	Coriandro	<i>Coriandrum sativum</i> L.
AU	TWO	TG/DIANE(proj.5)	Flax-lily, Dianella	Dianella	Flachslilie, Dianella	Dianella	<i>Dianella</i> Lam. ex Juss.
BR/CN	TWO	TG/EUCAL(proj.10)	Eucalyptus	Eucalyptus	Eukalyptus	Eucalipto	<i>Eucalyptus</i> L'Hér. (Sub-genus <i>Symphyomyrtus</i>) (Sections <i>Transversaria</i> , <i>Maidenaria</i> , <i>Exsertaria</i>)
JP	TWF	TG/FORTU(proj.4)	Kumquat	Kumquat	Kumquat	Kumquat	<i>Fortunella</i> Swingle
NZ	TWO	TG/HEBE(proj.5)	Hebe	Veronique	Strauchveronika	Verónica	<i>Hebe</i> Comm. ex Juss.
CA	TWO	TG/LOBEL(proj.4)	Lobelia, True Lobelia of Gardens	Lobélie, Lobélie des jardins	Lobelia, Männertreu	Lobelia	<i>Lobelia alsinoides</i> Lam.; <i>Lobelia erinus</i> L.; <i>Lobelia valida</i> L. Bolus; Hybrids between <i>Lobelia erinus</i> and <i>Lobelia alsinoides</i> ; Hybrids between <i>Lobelia erinus</i> and <i>Lobelia valida</i>
AU	TWO	TG/LOMAN(proj.5)	Lomandra, Mat Rush	Lomandra	Lomandra	Lomandra	<i>Lomandra</i> Labill.

**	TWP	Document No. N°. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name Nom botanique Botanischer Name Nombre botánico
CN	TWO	TG/PAEON(proj.7)	Tree peony, Yellow Tree Peony	Pivoine arbustive	Delavays Strauch- pfingstrose, Gelbe Pfingstrose		<i>Paeonia delavayi</i> Franch.
							<i>Paeonia jishanensis</i> T. Hong & W. Z. Zhao
							<i>Paeonia ludlowii</i> (Stern & Taylor) D. Y. Hong
							<i>Paeonia ostii</i> T. Hong & J. X. Zhang
							<i>Paeonia qiui</i> Y. L. Pei & D. Y. Hong
					Gefleckte Strauch- pfingstrose		<i>Paeonia rockii</i> (S. G. Haw & Lauener) T. Hong & J. J. Li ex D. Y. Hong
			Tree Peony, Moutan Peony	Pivoine arbustive	Strauchpäonie	Peonia	<i>Paeonia suffruticosa</i> Andrews, <i>Paeonia moutan</i> Sims
ES	TWF	TG/PGRAN(proj.5)	Pomegranate	Grenadier	Granatapfel	Granado	<i>Punica granatum</i> L.
FR	TWF	TG/PINEAP(proj.12)	Pineapple	Ananas	Ananas	Piña	<i>Ananas comosus</i> (L.) Merr.
KR	TWV	TG/PLEUR(proj.5)	Oyster Mushroom	Pleurote en coquille	Austernseitling, Drehling	Champignon ostra, Girgola, Seta de ostra	<i>Pleurotus ostreatus</i> (Jacq.) P. Kumm.
			Eringi, King Oyster Mushroom		Kräuterseitling	Seta de cardo	<i>Pleurotus eryngii</i> (DC.) Quél.
			Lung Oyster Mushroom			Pleuroto pulmonado, Pleuroto de verano	<i>Pleurotus pulmonarius</i> (Fr.) Quél.
IL/KR	TWA	TG/SESAME(proj.10)	Sesame	Sésame	Sesam	Ajonjolí, Sésamo	<i>Sesamum indicum</i> L.
CN	TWA	TG/SETARIA(proj.8)	Foxtail Millet, Italian Millet, Hungary Millet	Millet d'Italie, Millet des oiseaux, Setaire d'Italie	Italienhirse, Kolbenhirse	Dana, Mijo de cola de zorro, Mijo de Hungria	<i>Setaria italica</i> L., <i>Setaria italica</i> (L.) P. Beauv.
NL	TWV	TG/TOM_ROOT (proj.5)	Tomato Rootstocks	Porte-greffe de tomate	Tomatenunterlagen	Portainjertos de tomate	<i>Solanum lycopersicum</i> L. x <i>Solanum habrochaites</i> S. Knapp & D.M. Spooner; <i>Solanum lycopersicum</i> L. x <i>Solanum peruvianum</i> (L.) Mill.; <i>Solanum lycopersicum</i> L. x <i>Solanum cheesmaniae</i> (L. Ridley) Fosberg
REVISIONS OF TEST GUIDELINES							
ES	TWA	TG/32/7(proj.5)	Common Vetch	Vesce commune	Saatwicke	Veza común	<i>Vicia sativa</i> L.
NL	TWO	TG/108/4(proj.8)	Gladiolus	Glaïeul	Gladiole	Gladiolo	<i>Gladiolus</i> L.
NL	TWV	TG/118/5(proj.4)	Endive	Chicorée frisée, Chicorée scarole	Endivie	Escarola	<i>Cichorium endivia</i> L.
NL	TWV	TG/142/5(proj.5)	Watermelon	Melon d'eau; Pastèque	Wassermelone	Sandía	<i>Citrullus lanatus</i> (Thunb.) Matsum. et Nakai, <i>Citrullus</i> <i>vulgaris</i> Schrad.
DE	TWO	TG/176/5(proj.4)	Osteospermum; -	Ostéospermum; -	Osteospermum; Osteospermum, Kapmargerite, Kapkörbchen	Osteospermum; -	<i>Osteospermum</i> L.; hybrids with <i>Dimorphotheca</i> Vaill. ex Moench
NL	TWO	TG/213/2(proj.7)	Phalaenopsis	Phalaenopsis	Phalaenopsis	Phalaenopsis	<i>Phalaenopsis</i> Blume

**	TWP	Document No. N°. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name Nom botanique Botanischer Name Nombre botánico
PARTIAL REVISIONS OF TEST GUIDELINES							
ZA	TWO	TG/266/1 ³ (TC/49/2 Rev.2, TC/49/37)	African lily, Agapanthus, Blue lily, Lily of the Nile	Agapanthe, Fleur d'amour	Agapanthus, Schmucklilie	Agapando, Agapanto, Estrella de mar	<i>Agapanthus</i> L'Hér
FR/NL	TWV	TG/13/10 Rev. (TC/49/2 Rev.2, TC/49/38)	Lettuce	Laitue	Salat	Lechuga	<i>Lactuca sativa</i> L.
NL	TWV	TG/55/7 Rev. (TC/49/2 Rev.2, TC/49/39)	Spinach	Épinard	Spinat	Espinaca	<i>Spinacia oleracea</i> L.
QZ	TWV	TG/44/11 ³ (TC/49/2 Rev.2, TC/49/40)	Tomato	Tomate	Tomate	Tomate	<i>Solanum lycopersicum</i> L.

*246. With regard to the draft Test Guidelines for Opium/Seed Poppy (document TG/166/4 proj.4), on the basis of the recommendation of the TC-EDC, the TC agreed that the technical issues concerning those draft Test Guidelines, as set out in Annex II to this document, should be referred back to the TWV for further consideration.

Additional Characteristics

*247. The TC agreed that a draft revision of document TGP/5 Section 10 be presented for consideration by the TC at its fiftieth session, subject to the conclusion of discussions on disclaimers on UPOV documents in the Consultative Committee.

Corrections to Test Guidelines

*248. The TC noted the correction made to the Test Guidelines for Japanese Plum (document TG/84/4 Corr.), as set out in paragraph 15 of document TC/49/2 Rev.2.

Draft Test Guidelines Discussed by the Technical Working Parties in 2012

*249. The TC noted the draft Test Guidelines discussed by the Technical Working Parties at their sessions in 2012, as listed in Annex II to document TC/49/2 Rev.2.

Draft Test Guidelines to be discussed by the Technical Working Parties in 2013

*250. The TC agreed the program for the development of new Test Guidelines and for the revision of Test Guidelines, as shown in Annex III to document of TC/49/2 Rev.2. The TC noted that in addition to the Test Guidelines listed in Annex III to document of TC/49/2 Rev.2, the TWV would also consider the draft Test Guidelines for Opium/Seed Poppy, as explained in paragraph 246 above.

*251. The TC noted the status of the existing Test Guidelines as listed in Annex IV to document TC/49/2 Rev.2.

Test Guidelines on the UPOV Website

*252. The TC noted the list of adopted Test Guidelines that had since been replaced, as presented in Annex V to document TC/49/2 Rev.2.

*253. The TC agreed that a draft cover page for all previous adopted versions of Test Guidelines and of a disclaimer for UPOV session documents be presented for consideration by the TC at its fiftieth session, in accordance with the conclusions of discussions on those matters by the Consultative Committee.

³ Corrected from document TC/49/41 "Report on the Conclusions"

*254. The TC agreed to add a column for date of adoption of Test Guidelines to the list of Test Guidelines on the UPOV website.

List of Genera and Species for which Authorities have Practical Experience in the Examination of Distinctness, Uniformity and Stability

*255. The TC noted the information provided in document TC/49/4 and heard that the number of genera and species for which members of the Union had practical experience was 2,589 in 2013. However, the Office of the Union was investigating possible additional information which might lead to a revision in the near future.

*256. The TC agreed that document TC/49/4 should be updated for the fiftieth session of the TC. The TC agreed that the purpose and value of document TC/49/4 should be explained in future versions of the document.

Program for the fiftieth session

*257. The following draft agenda was agreed for the fiftieth session of the TC, to be held in Geneva in 2014:

1. Opening of the session
2. Adoption of the agenda
3. Discussion on:
 - (a) Improving the effectiveness of the Technical Committee, Technical Working Parties and preparatory workshops
 - (b) Opportunities for training in the examination of DUS
 - (c) Cooperation with breeders in the examination of DUS
4. 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)
5. 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 the Ad Hoc Crop Subgroups on Molecular Techniques
6. Matters arising from the Technical Working Parties
7. TGP documents
8. Molecular techniques
9. Variety denominations
10. Information and databases
 - (a) UPOV information databases
 - (b) Variety description databases
 - (c) Exchangeable software
 - (d) Electronic application systems
11. Assessing uniformity by off-types on the basis of more than one sample or sub-samples
12. Preparatory workshops
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 fifty-first session
16. Adoption of the report on the conclusions (if time permits)
17. Closing of the session

*258. The TC agreed that the fiftieth session should be held over three days: Monday morning to Wednesday afternoon. It agreed that the discussions under agenda item 3 should be organized for Wednesday morning. The TC agreed that the TWP chairpersons should be invited to make a visual presentation under agenda item 5 in the same way as for the forty-ninth session. It agreed that the TC-EDC should hold a two-day meeting in January 2014.

Chairperson and Vice-chairperson

*259. The TC noted that the chairmanship of Mr. Joël Guiard (France) would expire with the closing of the forthcoming ordinary session of the Council in October. It proposed to the Council that it elect Mr. Alejandro Barrientos-Priego (Mexico) as new Chairperson and Mr. Kees Van Ettehoven (Netherlands) as new Vice-Chairperson of the TC for the forthcoming three-year term.

260. *This report was 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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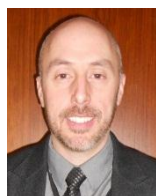


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DEMOKRATISCHE VOLKSREPUBLIK LAOS / REPÚBLICA DEMOCRÁTICA POPULAR LAO



Makha CHANTALA, Deputy Director General, Intellectual Property Division, National Authority for Science and Technology (NAST), Department of Intellectual Property, Standardization and Metrology (DISM), Makaidiao, P.O. Box 2279, Vientiane
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Bounchanh KHOMBOUNYASITH, Director, Agronomy Management Division, National Authority for Science and Technology (NAST), Department of Intellectual Property, Standardization and Metrology (DISM), Lane xang Avenue, Patuxay Square, P O Box 811, Vientiane
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RÉPUBLIQUE-UNIE DE TANZANIE / UNITED REPUBLIC OF TANZANIA /
VEREINIGTE REPUBLIK TANSANIA / REPÚBLICA UNIDA DE TANZANÍA



Juma Ali JUMA, Deputy Principal Secretary, Ministry of Agriculture and Natural Resources, P.O. Box 159, Zanzibar
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Audax Peter RUTABANZIBWA, Chairman, PBR Advisory Committee and Head of Legal Unit, Ministry of Agriculture, Food Security and Cooperatives (MAFC), P.O. Box 9192, Dar es Salaam
(tel.: +255 22 2865392 fax: +255 22 862077 e-mail: udax.rutabanzibwa@kilimo.go.tz)



Sidra Juma AMRAN (Ms.), Head of Legal Unit, Ministry of Agriculture and Natural Resources, P.O. Box 159, Zanzibar
(tel.: +255242230986 fax: +255242234650)

III. ORGANISATIONS / ORGANIZATIONS / ORGANISATIONEN / ORGANIZACIONES

ASSOCIATION INTERNATIONALE D'ESSAIS DE SEMENCES (ISTA) / INTERNATIONAL SEED TESTING ASSOCIATION (ISTA) / INTERNATIONALE VEREINIGUNG FÜR SAATGUTPRÜFUNG (ISTA) / ASOCIACIÓN INTERNACIONAL PARA EL ENSAYO DE SEMILLAS (ISTA)



Rita ZECCHINELLI (Mrs.), ISTA Executive Committee Member, Laboratorio Analisi Sementi INRAN-ENSE, Via Emilia Km. 307, 26838 Tavazzano (Lodi), Italy
(tel.: +39 0371 761919 fax: +39 0371 760812 e-mail: ritazecc@ense.it)

ORGANISATION DE COOPÉRATION ET DE DÉVELOPPEMENT ÉCONOMIQUES (OCDE) / ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT (OECD) / ORGANISATION FÜR WIRTSCHAFTLICHE ZUSAMMENARBEIT UND ENTWICKLUNG (OECD) / ORGANIZACIÓN DE COOPERACIÓN Y DESARROLLO ECONÓMICOS (OCDE)



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EUROPEAN SEED ASSOCIATION (ESA)



Bert SCHOLTE, Technical Director, European Seed Association (ESA), 23, rue Luxembourg, 1000 Brussels, Belgium
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Christiane DUCHENE (Mrs.), Seed and IP Regulatory Affairs, Limagrain, BP 1, 63720 Chappes, France
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Milica POPOVIC (Miss), Registration Manager Europe, Nuseed, Zrenjaninski Put BB, 21241 Kac, Serbia
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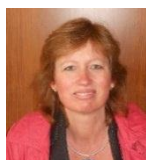
INTERNATIONAL SEED FEDERATION (ISF)



Marcel BRUINS, Secretary General, International Seed Federation (ISF), 7, chemin du Reposoir, 1260 Nyon, Switzerland
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Stevan MADJARAC, Global Germplasm IP Head, Monsanto Company, 700 Chesterfield Pkwy, BB1B, Chesterfield 63017, United States of America
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(tel.: +31 174 532414 fax: +31 174 510720 e-mail: a.schenkeveld@rijkszwaan.nl)

IV. BUREAU DE L'OMPI / OFFICE OF WIPO / BÜRO DER WIPO / OFICINA DE LA OMPI



Michael JUNG, Head, Internet Services Section, Business Solutions Management Service, Information and Communication Technology Department



Glenn MAC STRAVIC, Head, Brand Database Unit, Global Databases Service, Global Information Service



Young-Woo YUN, Senior Industrial Property Information Officer, WIPO Standards Section, International Classifications and WIPO Standards Service, Global Infrastructure Sector



Lili CHEN (Ms.), Software Developer, Brand Database Unit, Global Databases Service, Global Information Service



Monica DEDU (Ms.), Senior Analyst-Programmer, Internet Services Section, Business Solutions Management Service, Information and Communication Technology Department



Susan DE MICHIEL (Ms.), Web Systems Officer, Internet Services Section, Business Solutions Management Service, Information and Communication Technology Department

V. BUREAU / OFFICE / VORSITZ / OFICINA



Joël GUIARD, Chairman

VI. BUREAU DE L'UPOV / OFFICE OF UPOV / BÜRO DER UPOV / OFICINA DE LA UPOV



Peter BUTTON, Vice Secretary-General



Yolanda HUERTA (Mrs.), Legal Counsel



Julia BORYS (Mrs.), Senior Technical Counsellor



Fuminori AIHARA, Counsellor



Ben RIVORE, Consultant



Leontino TAVEIRA, Consultant



Romy OERTEL (Ms.), Secretary II

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

ANNEX II

REPORTS ON DEVELOPMENTS IN UPOV INCLUDING RELEVANT MATTERS DISCUSSED
IN THE LAST SESSIONS OF THE ADMINISTRATIVE AND LEGAL COMMITTEE,
THE CONSULTATIVE COMMITTEE AND THE COUNCIL

TECHNICAL COMMITTEE
Forty-ninth Session

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

Peter Button
Vice Secretary-General, UPOV

Geneva, March 18 to 20, 2013

OVERVIEW

- People, membership & statistics
- External relations
- Geneva events
- UPOV Collection
- DL courses

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OVERVIEW

- People, membership & statistics
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- DL courses

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COUNCIL

ELECTIONS

for a term of three years ending in 2015



President of the Council

Ms. Kitisri Sukhapinda
(United States of America)



Vice-President of the Council

Mr. Luis Salaices
(Spain)

MEMBERSHIP OF UPOV

1991 Act

New Members

Serbia as of Jan. 5, 2013

New Accessions/Ratifications

Panama as of Nov. 22, 2012

France as of May 27, 2012

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MEMBERSHIP OF UPOV

Examination of Laws

<u>Draft Laws examined</u>	<u>Council session</u>	<u>Advice</u>
Ghana	November 1, 2012	Positive
United Republic of Tanzania (For mainland Tanzania only. The law for Zanzibar is to be separately examined by the Council in March 2013)	November 1, 2012	Positive (law adopted)

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OBSERVERS

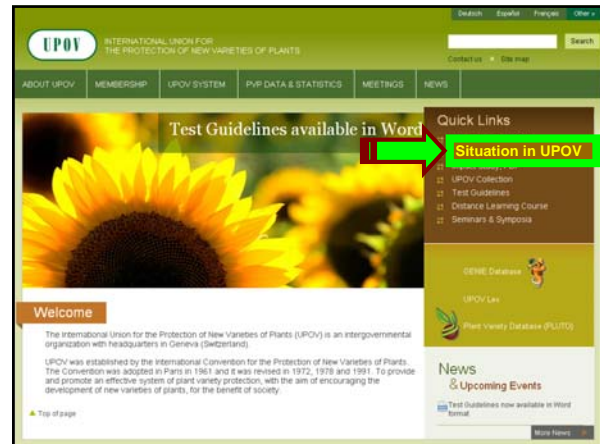
States

Observer State status granted to
GHANA
for the TC and TWPs

International Non-Governmental Organizations

Observer status granted to the
African Seed Trade Association (AFSTA)
for the Council, CAJ, TC and TWPs

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UPOV status

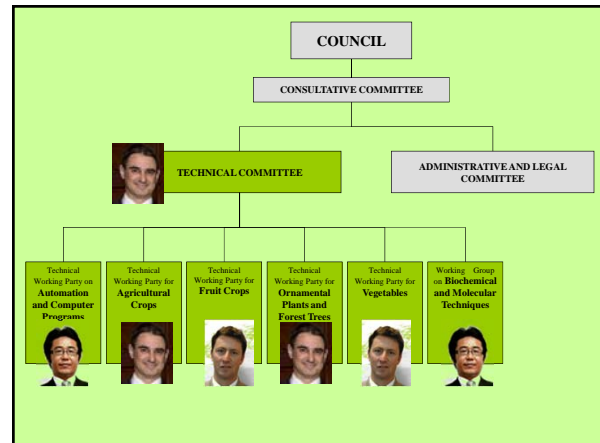


Members of UPOV (71)

Initiating States (16) and Organizations (1)

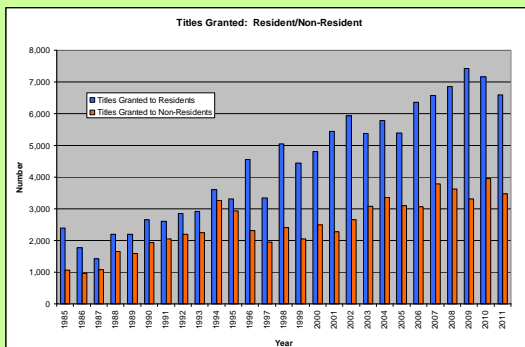
States (23) and Organizations (2) in contact with the UPOV Office

The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory.



Statistics in 2011

9.4% decrease in number of titles granted (11,115 in 2010; 10,065 in 2011)

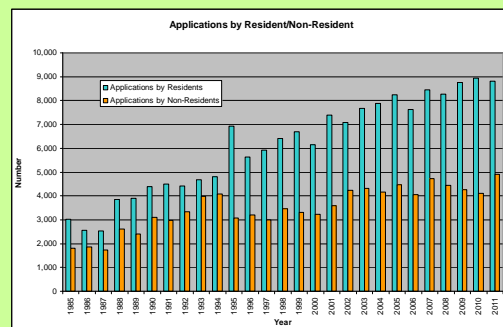


Statistics in 2011

5.2% increase in the number of applications (13,714 in 2011; 13,038 in 2010),

1.4% decrease by residents (8,813 in 2011; 8,937 in 2010)

19.5% increase by non-residents (4,901 in 2011; 4,101 in 2010)



OVERVIEW

- People, membership & statistics
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ITPGRFA

International Treaty on Genetic Resources for
Food and Agriculture (ITPGRFA)

Platform for the Co-Development and Transfer of Technologies

*Members of the Union approved the participation of
the Office of the Union in the Platform*

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OVERVIEW

- People, membership & statistics
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Symposium on
the Benefits of Plant Variety Protection for
Farmers and Growers

CLOSING REMARKS

Kitisri Sukhapinda
President of the Council of UPOV

Geneva, November 2, 2012

Session I: The Role of PVP in IMPROVING INCOMES for FARMERS and GROWERS

The UPOV System of Plant Variety Protection:

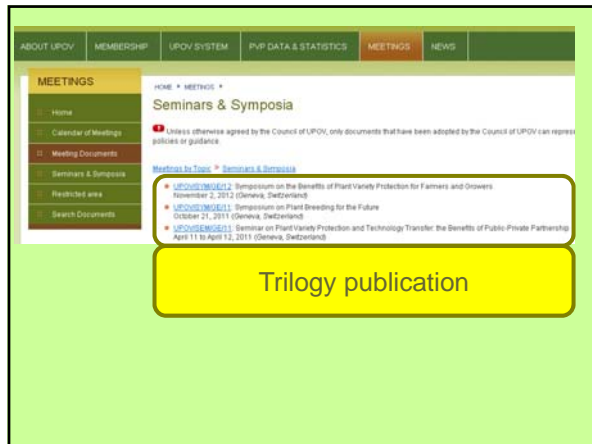
- Encourages the breeding of new varieties - enabling farmers to respond to the environmental and economic challenges confronting agriculture
- Provides farmers and growers with access to the best local and global varieties
- Enables variety choice to be combined with information and delivery of good quality planting material
- Is a tool for capturing value through farmer cooperation
- Facilitates "WIN-WIN" cooperation between farmers and breeders
- Provides business opportunities for small farmers and growers
- Has the potential to be even more effective through improvements in implementation

Session II: The Role of PVP in ENABLING FARMERS and GROWERS to BECOME BREEDERS

The UPOV System of Plant Variety Protection:

- Provides an incentive for farmers and growers to become breeders
- Enables any farmer or grower to use the best available, protected varieties for breeding work
- Offers an effective and transparent system that is easily accessible for small and medium-sized enterprises
- Enables farmers and growers to develop local, national and international businesses
- Empowers farmers and growers in the production chain

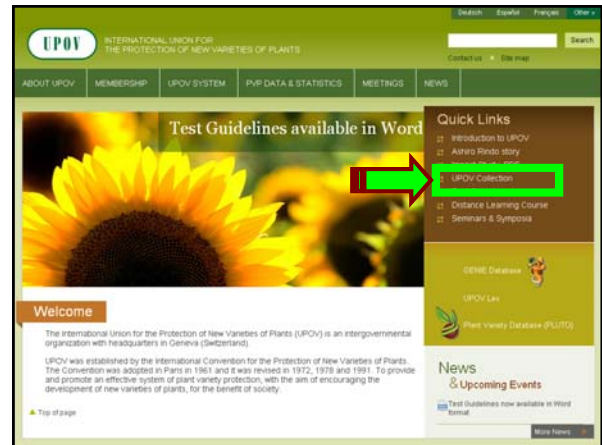
... BUT we need to explain it better



OVERVIEW

- People, membership & statistics
- External relations
- Geneva events
- UPOV Collection
- DL courses

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INFORMATION MATERIALS ADOPTED NOVEMBER 2012

Document reference	Title
UPOV/INF/12/4	Explanatory Notes on Variety Denominations under the UPOV Convention (Revision)
UPOV/INF/19/1	Rules governing the granting of observer status to States, intergovernmental organizations and international non-governmental organizations in UPOV bodies (Revision)
UPOV/INF/20/1	Rules governing access to UPOV documents (Revision)
UPOV/INF/21/1	Alternative Dispute Settlement Mechanisms
UPOV/INF-EXN/3	List of INF-EXN Documents and Latest Issue Dates
TGP/0/5	List of TGP Documents and Latest Issue Dates
TGP/12/2	Guidance on Certain Physiological Characteristics (Revision)

LATEST DEVELOPMENTS

Document reference	Status	Title	Schedule
UPOV/INF/15	Revision	Guidance for Members of UPOV on Ongoing Obligations and Related Notifications and on the provision of information to facilitate cooperation	Council March 2013 for adoption
UPOV/EXN/BRD	New	Definition of Breeder	CAJ/67 March 2013 for approval
UPOV/INF/5 (October 1979)	Revision	UPOV Model Plant Breeders' Rights Gazette	CAJ/67

LATEST DEVELOPMENTS: HARVESTED MATERIAL			
Document reference	Status	Title	Schedule
UPOV/EXN/HRV	New	Acts in Respect of Harvested Material <ul style="list-style-type: none"> Harvested material Unauthorized use of propagating material <ul style="list-style-type: none"> Acts in respect of propagating material Conditions and limitations Compulsory exceptions Optional exception Exercise his right 	CAJ/67 March 2013 for approval and ...
		to immediately start work on illustrative examples for a future possible revision	CAJ/67 to invite CAJ-AG?
		to consider the development of guidance on "reasonable opportunity"	CAJ/67 to invite CAJ-AG?

LATEST DEVELOPMENTS: PROPAGATING MATERIAL			
Document reference	Status	Title	Schedule
UPOV/EXN/PPM	New	Propagation and Propagating Material <ul style="list-style-type: none"> Forms of material that could be propagating material Non-exhaustive list of factors, such as: <ul style="list-style-type: none"> (i) whether the material has been used to propagate the variety; (ii) whether the material is capable of producing entire plants of the variety; (iii) whether there has been a custom/practice of using the material for that purpose; (iv) the intention on the part of those concerned (producer, seller, buyer, user); and (v) whether the plant material is suitable for reproducing the variety unchanged 	CAJ-AG October 2013

LATEST DEVELOPMENTS: ESSENTIALLY DERIVED VARIETIES			
Document reference	Status	Title	Schedule
UPOV/EXN/EDV	Revision	Essentially Derived Varieties <ul style="list-style-type: none"> EDV "B", EDV "C" to EDV "Z" 	CAJ/67 March 2013 for approval and ...
		<ul style="list-style-type: none"> use of molecular marker data information of an initial variety to obtain essentially derived varieties Relationship between Article 14(5)(b)(i) and (iii) <ul style="list-style-type: none"> starting point: "the derived variety must retain almost the totality of the genotype of the mother variety and be distinguishable from that variety by a very limited number of characteristics (typically by one)" 	CAJ-AG October 2013 and CAJ to consider possible seminar in October
		Presentations on matters concerning essentially derived varieties arising after the grant of a breeder's right (e.g. AU, BR, EU)	Future CAJ-AG

LATEST DEVELOPMENTS: OTHER			
Document reference	Status	Title	Schedule
	To be decided	Matters Arising after the Grant of a Breeder's Right <ul style="list-style-type: none"> (a) Cancellation of the breeder's right; (b) Nullity of the breeder's right; (c) Variety denominations; (d) Variety descriptions [(e) Provisional protection] [(f) Filing of applications] [(g) Enforcement of breeders' rights] 	CAJ-AG October 2013

OVERVIEW	
<ul style="list-style-type: none"> People, membership & statistics External relations Geneva events UPOV Collection DL courses 	29

DL-205 Introduction to the UPOV System of Plant Variety Protection under the UPOV Convention	
<p>Course dates 2013</p> <p>Session I</p> <p>Study period: May 13 to June 16, 2013</p> <p>Final exam: June 10 to 16, 2013</p> <p>Online registration is available between February 1 to March 31, 2013. After March 31, registration will no longer be possible. For Category 1 and 2 participants, all endorsements must be provided by May 1, 2013.</p> <p>Registrations can be made in three different categories:</p> <p>Category 1: Government officials of members of the Union nominated by the relevant representative to the UPOV Council No fee</p> <p>Category 2: Officials of observer States / intergovernmental organizations nominated by the relevant representative to the UPOV Council (One non-fee paying student per State / intergovernmental organization) Additional students: CHF1,000 per student</p> <p>Category 3: Others Fee: CHF1,000</p>	30

DL-305
Examination of applications for plant breeders' rights

SECTION I ADMINISTRATION OF PLANT BREEDERS' RIGHTS

Module 1: The Plant Breeder's Right's Office
Module 2: Administration of applications

SECTION II ENTITLEMENT

Module 3: Entitlement to file an application

SECTION III NOVELTY

Module 4: Examining Novelty

SECTION IV DUS EXAMINATION

Module 5: Introduction to the DUS examination
Module 6: Variety collections
Module 7: Examining Distinctness
Module 8: Examining Uniformity
Module 9: Examining Stability
Module 10: Trial Design and Data Analysis
Module 11: Approaches and cooperation in DUS examination

SECTION V VARIETY DENOMINATION

Module 12: Examining the variety denomination

SECTION VI PUBLICATION OF INFORMATION AND DECISIONS

Module 13: Information to be published
Module 14: Proposed decisions and Objections
Module 15: Decisions
Module 16: Situations which may arise after the grant of PBR

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DL-305
Examination of applications for plant breeders' rights

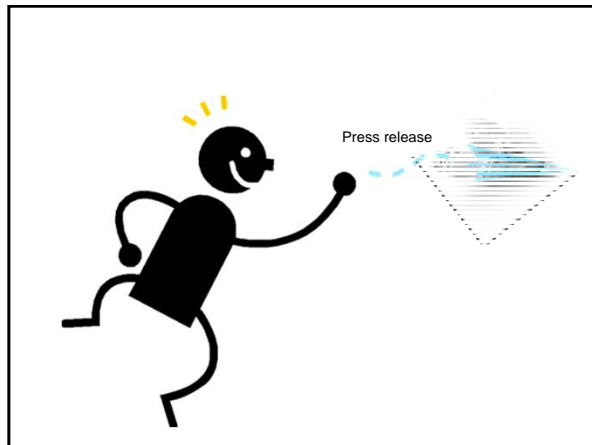
Draft Section IV (DUS) circulated to interested experts for comment by April 19

Test course to be uploaded in June/July 2013

First course (English) December 2013

First course (French, German, Spanish) 2014

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UPOV INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

ABOUT UPOV | MEMBERSHIP | UPOV SYSTEM | PVP DATA & STATISTICS | MEETINGS | **NEWS**

NEWS

Latest News

Press Releases

Graphic and Newsletter

Job Opportunities

HOME > NEWS > PRESS RELEASES > 2012 Press Releases

2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

UPOV Press Release No. 97
(Geneva, December 5, 2012)
Belarus becomes a UPOV member!

UPOV Press Release No. 92
(Geneva, November 1, 2012)
UPOV Council Holds its Forty-Sixth Ordinary Session

UPOV Press Release No. 91
(Geneva, October 22, 2012)
Paraguay accedes to 1991 Act

UPOV Press Release No. 90
(Geneva, April 27, 2012)
France ratifies 1991 Act

UPOV Press Release No. 89
(Geneva, March 26, 2012)
UPOV Council Holds Extraordinary Session

▲ Top of page

THANK YOU

ORAL REPORTS OF THE CHAIRPERSONS OF THE TECHNICAL WORKING PARTIES

Oral Report of the Chairperson of the Technical Working Party for Agricultural Crops

**TECHNICAL COMMITTEE
MEETING**
Report Back of the TWA 2012

GENEVA, SWITZERLAND
MARCH 18-20, 2013



**TECHNICAL WORKING PARTY FOR
AGRICULTURAL CROPS (TWA)**

41st SESSION
ANGERS, FRANCE
MAY 21-25, 2012
with the PREPARATORY WORKSHOP
on the 20 MAY 2012

CHAIRPERSON: ROBYN HIERSE
Report: TWA/41/34 REPORT

**TECHNICAL WORKING PARTY FOR
AGRICULTURAL CROPS (TWA)**

- 53 participants from 28 members of the Union
- 1 Observer State
- 2 Organisations
- 3 electronic participants – 2 from Australia and 1 from WIPO
- Preparatory Workshop was attended by 25 participants from 14 members of UPOV



**TECHNICAL WORKING PARTY FOR
AGRICULTURAL CROPS (TWA)**

- Reports from the participants TWA/41/31
- Followed by a presentation from the UPOV OFFICE on latest developments
- Molecular Techniques - TWA/41/2

**TECHNICAL WORKING PARTY FOR
AGRICULTURAL CROPS (TWA)**

- TGP documents discussed
 - TGP/7, TGP/8 and TGP/14

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

- TGP/7 Development of Test Guidelines
 - Guidance on the number of plants to be examined (for distinctness)
 - Guidance for the method of observation
 - Example varieties
 - Providing photographs with the TQ

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

- TGP/8: Trial Design and Techniques used in the Examination of Distinctness, Uniformity and Stability
- TGP/14: Glossary of Terms Used in UPOV Documents

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

The following documents were also noted and discussed as follows:

- TWA/41/10 - Method of calculation for COYU
- TWA/41/9 - Assessment of uniformity by off-types on the basis of more than one sample or sub-samples
- TWA/41/4 - Variety Denominations
- TWA/41/6: Variety Description Databases
- TWA/41/7: Exchangeable Software
- TWA/41/8: Electronic Application Systems

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

- WEBEX presentation on PLUTO database and noted the information in TWA/41/5: UPOV Information Databases
- WEBEX presentation on a web based TG Template

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

- Three TG's to be submitted to the TC – Common Vetch, Foxtail Millet and Sesame
- TWA plan to discuss 12 TG's at TWA session in 2013
- TG's to be discussed: Adlay, Adzuki/Red bean, Cassava, Elytrigia, Groundnut, Kentucky Bluegrass, Solanum tuberosum subsp. andigenum, Rhodesgrass, Scorpion Weed, Sorghum, Urochloa and Wheat



TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

- On May 23, 2012, the TWA visited the technical unit of GEVES in L'Anjouère where they were shown greenhouse and field trials of several crops



TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS (TWA)

- 42nd TWA Session - Kiev, UKRAINE JUNE 17-21 2013
- Preparatory Workshop - JUNE 16, 2013

TECHNICAL COMMITTEE MEETING Report Back of the TWA 2012

THANK YOU



Oral Report of the Chairperson of the Technical Working Party on Automation and Computer Programs



Technical Working Party for Automation and Computer Programs, 30th meeting

- Chisinau, Republic of Moldova, June 25 - 29, 2012
- Chairman Sami Markkanen, Finland
- 51 participants from 20 members of the Union
- Preparatory workshop on June 25, attended by 26 participants from 7 members of the Union
- 3 presentations by webcast
- 46 documents discussed



UPOV TC March 18-20 2013




Revision of TGP/8/1
Part I: DUS Trial Design and Data Analysis

New sections:

- TWC/30/16 'Data to be recorded'
- TWC/30/21 'Reduction of Size of Trials'
- TWC/30/24 'Minimizing the variation due to different observers'
 - PQ characteristics to be included

UPOV TC March 18-20 2013




Revision of TGP/8/1
Part II: Techniques used in DUS Examination

Revisions of existing sections in TGP/8/1:

- TWC/30/23 'The Combined-Over-Years Criteria (COYD)'
- TWC/30/20 'Adapting COYD to special circumstances'
- TWC/30/22 '2x1% Method – Minimum number of Degrees of Freedom for the 2x1% Method'
- TWC/30/26 'Minimum Number of Comparable Varieties for the Relative Variance Method'

UPOV TC March 18-20 2013




Revision of TGP/8/1
New sections for Part II: Transformation methods

TWC/30/30 (and TWC/30/30 Add) Data processing for the assessment of distinctness and for producing variety descriptions

- Methods from France, Germany, Japan, Republic of Korea and The United Kingdom
- The TWC agreed to process:
 - A Summary of the different approaches
 - A Survey on the processing of a common data set for determination the aspects in common and where there is divergence among the methods

UPOV TC March 18-20 2013

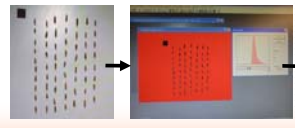


Revision of TGP/8/1
New sections for Part II: Image Analysis

Survey on Software and Hardware used for Image Analysis TWC/30/39

- 21 UPOV members returned questionnaire
- basis for producing guidance

Examining Characteristics Using Image Analysis would be prepared for TGP/8



Color	Green	Yellow	Orange	Red	Dark Red	Black
Area	10.00	10.00	10.00	10.00	10.00	10.00
Mean	1.00	1.00	1.00	1.00	1.00	1.00
SD	1.00	1.00	1.00	1.00	1.00	1.00
CV	1.00	1.00	1.00	1.00	1.00	1.00
Skewness	1.00	1.00	1.00	1.00	1.00	1.00
Kurtosis	1.00	1.00	1.00	1.00	1.00	1.00
Max	1.00	1.00	1.00	1.00	1.00	1.00
Min	1.00	1.00	1.00	1.00	1.00	1.00
Sum	1.00	1.00	1.00	1.00	1.00	1.00
Avg	1.00	1.00	1.00	1.00	1.00	1.00
StDev	1.00	1.00	1.00	1.00	1.00	1.00
Var	1.00	1.00	1.00	1.00	1.00	1.00
MaxDiff	1.00	1.00	1.00	1.00	1.00	1.00
MinDiff	1.00	1.00	1.00	1.00	1.00	1.00
SumDiff	1.00	1.00	1.00	1.00	1.00	1.00
AvgDiff	1.00	1.00	1.00	1.00	1.00	1.00
StDevDiff	1.00	1.00	1.00	1.00	1.00	1.00
VarDiff	1.00	1.00	1.00	1.00	1.00	1.00
MaxDiff2	1.00	1.00	1.00	1.00	1.00	1.00
MinDiff2	1.00	1.00	1.00	1.00	1.00	1.00
SumDiff2	1.00	1.00	1.00	1.00	1.00	1.00
AvgDiff2	1.00	1.00	1.00	1.00	1.00	1.00
StDevDiff2	1.00	1.00	1.00	1.00	1.00	1.00
VarDiff2	1.00	1.00	1.00	1.00	1.00	1.00

UPOV TC March 18-20 2013




Image Analysis

Aim Software

- Made by an expert from France (GEVES)
- AIM software is used to control the centralized and shared image analysis system in GEVES
- Could be made available free of charge
- Suggestions:
 - training on use
 - translation into English
 - to be included in the list of exchangeable software

UPOV TC March 18-20 2013



Assessing uniformity by off-types on the basis of more than one sample or sub samples

- More detailed information and further analysis is needed in order to give guidance
- France, Germany and the Netherlands would present one or more concrete situations in their countries and the statistical basis of their analysis
- The statistical basis for the acceptable number of off-types in the sub sample of 20 plants used in the context of a sample of 100 plants would be assessed by experts from France and Germany.

UPOV TC March 18-20 2013



TWC/30/7 'Exchangeable software'.

- The TWC suggested that before taking a view on the inclusion of a software on the list, clarification is needed on the following issues:
 - conditions of availability
 - need for translation
 - training and maintenance
 - costs for potential users

UPOV TC March 18-20 2013



'Information System (IS) used for Test and Protection of Plant Varieties in the Russian Federation' TWC/30/35

- Developed by IT specialists of Gossortcomissya
- IS is used for
 - data acquisition, accumulation and storage
 - information processing
- 9 Functional subsystems including Trial Design and DUS Testing
- Could be included in the list of exchangeable software, with a remark that it would be available in the Russian language.

UPOV TC March 18-20 2013



NEXT SESSION TWC 31

- Seoul, Republic of Korea
- June 4 - 7, 2013
- Preparatory workshop on June 3.



Oral Report of the Chairperson of the Technical Working Party for Fruit Crops

Technical Working Party for Fruit Crops (TWF)

43rd session, Beijing, China
July 30th to August 3rd 2012
Report TWF/43/38

Technical Working Party for Fruit Crops

- ▶ 53 participants from 16 members of the Union.
- ▶ 3 observer states.
- ▶ 1 observer organization.



Technical Working Party for Fruit Crops

国际植物新品种保护联盟43届果树技术工作组会议合影
UPOV TECHNICAL WORKING PARTY FOR FRUIT CROPS FORTY-THIRD SESSION
2012.07.30 Beijing



Technical Working Party for Fruit Crops Technical visit



Technical Working Party for Fruit Crops

TGP/7

- ▶ The TWF considered the following documents on the basis of TWF 43/3
- ▶ Providing photographs with the Technical Questionnaire.
- ▶ Guidance for method of observation.
- ▶ Guidance on number of plants to be examined.
- ▶ Example varieties: A three step approach were proposed by the TWF for Leading experts to consider when drafting Test Guidelines.

Technical Working Party for Fruit Crops

TGP/8

- ▶ The TWF considered TWF/46/16.
- ▶ The TWF agreed that the document should be submitted to the TC for approval at its next session.



Technical Working Party for Fruit Crops

TGP/14

Ratio's from compressed to elongated
States from low to high



Technical Working Party for Fruit Crops

Proposals for Partial Revision: Mandarins

- ▶ The TWF discussed document TWF 43/36
- ▶ The TWF received a presentation from Mr. Jean Maisson (EU) coordinator of the Mandarin Subgroup.
- ▶ Experts from Spain & Morocco reported on their progress to date.



Technical Working Party for Fruit Crops

Test Guidelines

- ▶ The TWF agreed that the following draft Test Guidelines should be sent to the TC for adoption at its 48th session : Kumquat (*Fortunella Swingle*), Pineapple (*Ananas comosus* L.Merr.), Pomegranate (*Punica granatum* L.),
- ▶ The TWF agreed to discuss 11 guidelines at its 44rd session.

New Guidelines for discussion 2013

- ▶ These Guidelines are :
- ▶ Acca, Apple Rootstock, Coconut, Mandarin, Papaya, Peach, Pecan nut, Litchi, Walnut, Vanilla & Prunus Rootstock.
- ▶ Suggested by 16 of the 71 Member Countries of UPOV.
- ▶ I would like to invite participation from TC members to the TWF & with that, also more involvement in Guideline proposals and discussions.

Guidelines for Discussion



Technical Working Party for Fruit Crops

▶ Forty Third session of the TWF

- ▶ At the invitation of an expert from New Zealand, the TWF agreed to hold its 44th session in Napier, from April 29 – May 3, 2013, with a preparatory workshop on April 28.
- ▶ The workshop gives an introduction to UPOV, an overview of how to draft & interpret Guidelines & thus provides an excellent opportunity for training of DUS examiners.

Technical Working Party for Fruit Crops

- Apart from discussing TGP documents & Guidelines the TWF also builds relations and exchange knowledge across UPOV member States:

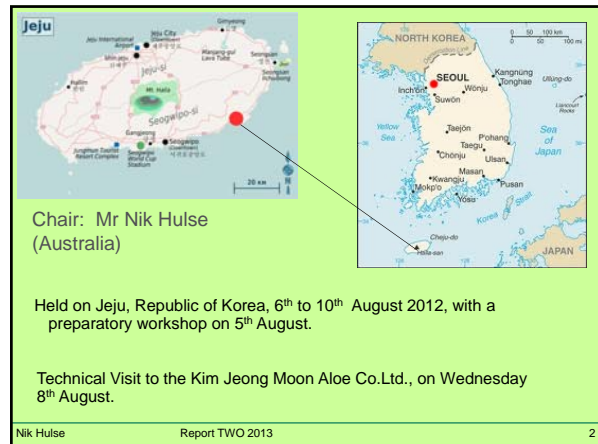


Oral Report of the Chairperson of the Technical Working Party for Ornamental Plants and Forest Trees



**Progress report on
Technical Working Party for
Ornamental Plants and
Forest Trees (TWO)
45th Session**

Nik Hulse Report TWO 2013 1



Chair: Mr Nik Hulse
(Australia)

Held on Jeju, Republic of Korea, 6th to 10th August 2012, with a preparatory workshop on 5th August.

Technical Visit to the Kim Jeong Moon Aloe Co.Ltd., on Wednesday 8th August.

Nik Hulse Report TWO 2013 2




The meeting was attended by 60 participants from 15 members of the Union, four observer states and two organisations.

The preparatory workshop was attended by 34 participants.

Nik Hulse Report TWO 2013 3

The TWO was welcomed by;

Mr. Won-Gil BAE,
Director General,
Korea Seed & Variety Service
(KSVS)



Mr. Won-Gil Bae gave a speech on the plant variety protection system in Korea.

Nik Hulse Report TWO 2013 4

Mr. Young-Kook CHANG
Director
Plant Variety Division,
Korea Seed and Variety Service
(KSVS)



Mr Young-Kook Chang gave a presentation on the plant variety protection activities undertaken by the KSVS

Nik Hulse Report TWO 2013 5

Many documents were discussed, including 20 Test Guidelines

Although all of the discussions were important only a few of the key points are presented here.

Nik Hulse Report TWO 2013 6

Document TWO/45/12 “Guidance on the Number of Plants to be Examined (for Distinctness)”

The TWO requested the document take into consideration that the minimum number of plants should match the number necessary to assess the characteristic requiring the greatest number of plants.

Documents TWO/45/14 and TWO/45/14 Add. “Example Varieties”

The TWO supported the three step approach for considering Example Varieties developed by the TWF :

- 1 to ascertain whether example varieties were necessary for a specific characteristic;
- 2 if considered necessary, those example varieties that could be used as common or universal references should be identified;
- 3 to establish whether a regional set of example varieties were necessary for the specific Test Guidelines.

Documents TWO/45/14 and TWO/45/14 Add. “Example Varieties” (cont.)

The TWO also agreed that the use of illustrations should be further encouraged for QL and PQ characteristics

- this would assist in step 1 of the approach by reducing the need for example varieties to be included in the Test Guidelines for these characteristics.

Document TWO/45/25 REVISION OF DOCUMENT TGP/14: Section 2: Botanical Terms Subsection 3: Color

The TWO suggested some improvements to the document, including adding text to explain;

- that when describing colors of plants in Test Guidelines, it is generally the practice to look at one or more of the three elements of color, separately or in combination.
- how to determine which color is main and which is secondary when these are too similar in area by using the darkest color or the color location.
- that variegation consists of color, color distribution and pattern and, depending on the species, it may not be necessary for all components to be described.

Variety description databases (TWO/45/6 and TWO/45/6 Add.)

The TWO noted the document and received a presentation by an expert from France

- the aim of the study is to obtain a common data base of variety descriptions – trial using Pea varieties
- The TWO highlighted the importance of the study in the future harmonization of variety descriptions.

Web based Test Guidelines (TG) Template

The TWO received a presentation and noted the proposed features for the web based TG template.

- The possibility of using such a template and related databases to facilitate the development of national guidelines was discussed.
- The TWO supported the initiative and agreed the work on the TG Template should continue

The TWO agreed to submit ten Test Guidelines to the TC in 2013.

New TG's:

Dianella
Eucalyptus
Hebe
Lobelia
Lomandra
Osteospermum
Phalaenopsis
Tree Peony



Revisions:

Gladiolus
African Lily (partial revision)

Nik Hulse

Report TWO 2013

13

TWO 46th Session

At the invitation of Australia, the TWO agreed to hold its forty-sixth session in Melbourne, Australia from April 22 to 26, 2013.



The meeting is to be chaired by Mr Nik Hulse (Australia).

Nik Hulse

Report TWO 2013

14

At its forty-sixth session the TWO plans to discuss 15 Test Guidelines, consisting of two revisions and 13 new Test Guidelines.



Nik Hulse

Report TWO 2013

15

Benefits to members participating in test guidelines development

TGs more useful to DUS examiners in their country

Sharing of knowledge and experience

Facilitates the exchange of DUS test reports

Nik Hulse

Report TWO 2013

16

Thank You



Background image: Mt Halla, Jeju

Nik Hulse

Report TWO 2013

17

Oral Report of the Chairperson of the Technical Working Party for Vegetables

46 th TWV meeting
June 11 to 15, 2012

- . Near the city of Venlo – Floriade horticultural exposition,
- . Chairperson : M.F.BOULINEAU,
- . Number of participants : 43
(38 participants from 16 UPOV members and 5 from 2 organizations)
- . Welcomed by MM.VALSTAR and KOOMEN,
- . Minutes : TWV / 46 / 41.
- . Next place : Nagasaki, (Japan) – May 2013

TC 49 - François BOULINEAU – 18/03/2013

46 th TWV meeting
June 11 to 15, 2012



46 th TWV meeting
June 11 to 15, 2012

Main topics developed :

A very important and very specific point on the level of uniformity according to the state of expression of obligatory disease resistances was discussed on the base of a CPVO presentation. This point will be discussed once again during the forty-seventh session.

TC 49 - François BOULINEAU – 18/03/2013

46 th TWV meeting
June 11 to 15, 2012

Main topics developed :

Concerning the guidance of data analysis for blind randomized trials, the TWV express the importance of this approach for breeders and the contribution they made to the system. It recommends that this guidance should be continued on the base of the actual document.

TC 49 - François BOULINEAU – 18/03/2013

46 th TWV meeting
June 11 to 15, 2012

Main topics developed :

Concerning the point on variety description databases, the TWV agreed that the work on the project for Pea database should be continued and that it would be a good example for the development of similar databases for other crops. It also agreed that it would be a good basis for future revision of the test guideline for Pea in respect of grouping characteristics.

TC 49 - François BOULINEAU – 18/03/2013

46 th TWV meeting
June 11 to 15, 2012

During this session, 13 test guidelines were discussed, 9 are now ready for TC-EDC and 4 will be examined once again during the next session where 8 new crops are planned for discussion, (mainly revision or partial revision).

TC 49 - François BOULINEAU – 18/03/2013

46 th TWV meeting June 11 to 15, 2012

SPECIES READY FOR TC / EDC 2013:

Coriander (*Coriandrum sativum* L.)
Endive (*Cichorium endivia* L.)
Lettuce (*Lactuca sativa* L.)
Opium/Seed Poppy (*Papaver somniferum* L.)
Oyster Mushroom (*Pleurotus* (Fr.) Quel.)
Spinach (*Spinacea oleracea* L.)
Tomato (*Solanum lycopersicum* L.)
Tomato Rootstocks
Watermelon (*Citrullus lanatus* (Thunb.) Matsum. et Nakai)

TC 49 - François BOULINEAU - 18/03/2013

46 th TWV meeting June 11 to 15, 2012

TEST GUIDELINES TO BE DISCUSSED AT TWV/47 :

Bottle Gourd, Calabash (<i>Lagenaria siceraria</i>)	-> FR
Brown Mustard (<i>Brassica juncea</i> L.)	-> JP
Cassava (<i>Manihot esculenta</i>)	-> KE / BR
Chives (<i>Allium schoenoprasum</i> L.)	-> NL
Cucumber (<i>Cucumis sativus</i> L.)	-> NL
<i>Cucurbita maxima</i> x <i>C. moschata</i> (Rootstocks)	-> FR

TC 49 - François BOULINEAU - 18/03/2013

46 th TWV meeting June 11 to 15, 2012

TEST GUIDELINES TO BE DISCUSSED AT TWV/47 (following):

Leaf Cichory (<i>Cichorium intybus</i> L. var. <i>foliosum</i>)	-> FR
Lentil (<i>Lens culinaris</i> Medik.)	-> FR
Melon (<i>Cucumis melo</i> L.)	-> NL / FR
Pea (<i>Pisum sativum</i> L.)	-> FR
Sweet Pepper, Hot Pepper (<i>Capsicum annuum</i> L.)	-> FR
Witloof, Chicory (<i>Cichorium intybus</i> L. <i>partim</i>)	-> FR

TC 49 - François BOULINEAU - 18/03/2013



[Annex IV follows]

ANNEX IV

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

TC-EDC/Jan13/23 Partial Revision of the Test Guidelines for Lettuce

Annex, page 1	to add (b) to all chars. of 39
Annex, page 8	to add current version at date of adoption and add date to table
Annex, page 10	to put latin names in italics: 1. Pathogen <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> 3. Host species <i>Lactuca sativa</i> L.
	to delete asterisks in addendums
Annex, page 11	13. not clear, clarify/move to 10.3

TC-EDC/Jan13/24 Spinach (*Spinacea oleracea* L.) (Partial revision)

Char. 17	to add QL to all chars. of char. 17
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TC-EDC/Jan13/25 Tomato (*Solanum lycopersicum* L.) (Partial Revision)

To be considered in conjunction with the comments on the draft Test Guidelines for Tomato Rootstocks in order to assure consistency.

Annex II, page 2 (Ad. 46)	- At 9.3 the control varieties for the state Moderately resistant the example "Anahu x Monalbo" should be deleted. - At the state Highly resistant please add the example "Anahu x Casaque Rouge" to the already mentioned Anahu and Anabel.
Annex II, page 4 (Ad. 47)	at the bottom of the page to read: "13. Critical control points: All symptoms may be present in resistant varieties, but the severity will be distinctly less than in susceptible varieties. Usually resistant varieties will show significantly less growth retardation than susceptible varieties.
Annex II, page 30 (Ad. 60)	at the bottom of the page: to correct italics of " <i>O. neolyopersici</i> "
Annex II, Ads. 46-61	- 9.1 to add the word "plants" after indication of the number of plants - 9.2 to replace "Not applicable" by "1 replicate" - 12. title to read "Interpretation of test results in comparison with control varieties"

1. NEW TEST GUIDELINES

Coriander (<i>Coriandrum sativum</i> L.)	TG/CORIA(proj.5)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/CORIA(proj.5)), submitted to the TC:

Char. 7	- to delete space before colon - to check whether to read "Petiole: length" <i>Leading Expert: to keep characteristic as it is and provided correct illustration</i>
Char. 8	- to provide explanation: illustrations are unclear - check whether illustrations for states 2 and 3 are the wrong way around <i>Leading Expert: to reword characteristic and provided new illustrations</i>
8.1 (a)	to read "Observations on the seedling should be done on plants with three leaves." <i>Leading Expert: agreed</i>
8.1 (b)	to read "Observations on the plant, foliage and leaf should be done at the beginning of flowering." The last sentence refers only to Char. 9 and should be moved to 8.1, see below <i>Leading Expert agreed with new wording for 8.1 and provided new explanation for Ad. 9</i>
8.1 (c)	to read "Observations on fruits should be made at the stage of dry seeds, collected in the first and second order umbels."
Ad. 3	- to delete drawing - to read "...from the cotyledon" <i>Leading Expert: agreed</i>
Ad. 8	Images for state 2 and 3 are not appropriate, 2 is not in between 1 and 3 <i>Leading Expert: see comment on Char. 8</i>
Ad. 7, 9	- to check whether to read "The observation should be done on the fifth leaf" and to correct indication of chars. in the drawing <i>Leading Expert: provided new drawing (see comment on Char. 7) and new explanation</i>
Ad. 13	to read "The time of beginning of flowering is when 50% of plants have at least one open flower."

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Ad. 7, 9	to read "Observations on the leaves and leaflets should be made on the leaf on the third node, counting from the base."
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Dianella (<i>Dianella</i> Lam. Ex juss.)	TG/DIANE(proj.5)
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The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/DIANE(proj.5)), submitted to the TC:

Char. 1	to place "excluding inflorescence" in brackets
Chars. 8, 10, 11 etc.	to replace "adaxial" & "abaxial" with "upper side" and "lower side" and add explanation for both terms <i>Leading Expert: agreed, explanation added at the end of 8.1 (b)</i>
Char. 15	to check whether to reorder states of expression as follows: acute (1), acuminate (2), apiculate (3) <i>Leading Expert: agreed</i>
Chars. 22, 23	- to check whether to combine Chars. 22 and 23 or reduce number of states in Char. 23 <i>Leading Expert: to combine characteristics and keep current Ad. 22. To correct spelling of example variety "Dinky Di" throughout the document.</i>
8.1 (a)	to read "The assessment of plant, shoot and stem characteristics should be carried out towards the end of active vegetative growth." <i>Leading Expert: agreed</i>
8.1 (b), (c)	to delete "All"

8.1 (b)	- 1 st sentence to read "Observations on the leaf should be made on the youngest fully expanded leaves on either side of young leaves." - to use wording of color definitions from TGP/14 <i>Leading Expert: agreed</i>
Ad. 2	to read "The plant density is observed as the overall density of foliage."
Ad. 4	to use drawings instead of photographs <i>provided by Leading Expert</i>

Eucalyptus (part of genus only)	TG/EUCAL(proj.10)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/EUCAL(proj.10)), submitted to the TC:

3.1.1	to read "The minimum duration of tests should normally be a single growing cycle" <i>Leading Expert: agreed and consequently proposed to delete 3.1.2 as it conflicts with 8.1</i>
Table of Chars.	order of chars. to follow either chronological or botanical order <i>Leading Expert: to follow chronological order according to notes in Chapter 8.1 and botanical order within all chars. with the same note</i>
Chars. 3, 4	to have the same example varieties <i>provided by Leading Expert</i>
Chars. 5, 16, etc.	to read "shape" or to have the states low to high and to add (+) and provide illustration <i>Leading Expert: to read "shape"</i>
Chars. 8, 19, 35	to check whether to change the order of the states as follows: (1) rounded, (2) obtuse, (3) acute, (4) subulate <i>Leading Expert: agreed</i>
Chars. 13, 23 etc.	to replace "upward" with "erect"
Chars. 14, 15	to have the same example varieties as Chars. 3 and 4 <i>provided by Leading Expert</i>
Chars. 22, 40	state 9 to read "circular" instead of "spherical"
Chars. 24, 25	to check whether Chars. 24 and 25 should be observed at the same time <i>Leading Expert: both Chars. to be indicated as (d)</i>
Char. 26	to place "excluding rhytidome" in brackets
Char. 27	to check whether (b) is the right note <i>Leading Expert: the right note is (c)</i>
Char. 43	char. has note (e), but there is no note (e) in 8.1 <i>Leading Expert: the right note is (d)</i>
Char. 45	- to be indicated as QN - to check whether applies only to umbel type or whether to read "Peduncle: shape in cross section" <i>Leading Expert: Char. to read "Peduncle: shape in cross section"</i>
Char. 48	to replace "similar" with "equal"
Char. 51	to check whether QL <i>Leading Expert: it is QL</i>
Char. 53	to check whether to delete "deeply" from state 1, state 3 to read "above rim" <i>Leading Expert: agreed</i>
Char. 54	- to be indicated as QN - state 3 to read "very fibrous"
8.1	- to check allocation of missing notes in Table of Chars. <i>missing notes provided by leading Expert</i> - to delete the word "All" at the beginning of all explanations
Ad. 1, 12, 28	to replace existing illustration with improved one (as requested by TWO) <i>provided by Leading Expert</i>
Ad. 9, 20, 36	to provide picture with plain apex for state 1 <i>provided by Leading Expert</i>

Ad. 56	to read "The density should be evaluated on the basis of wood volume at the highest level of humidity, through the hydrostatic balance methodology, according to TAPPI Norm #T258 om-94 (Technical Association of Pulp and Paper Industry)." but to clarify what is meant by the "highest level of humidity" <i>new wording provided by Leading Expert (deleted reference to "highest level of humidity")</i>
9.	reference of drawings to be clarified <i>provided by Leading Expert</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Char. 8, 19, 31	to read "Ratio: length/width" and to have states (1) very low to (9) very high and to modify Ad. accordingly
Char. 30	to have same example varieties as Chars. 7 and 18
Char. 39	to be moved before Char. 36
Char. 42	to have notes 1 and 2 instead of 1 and 9
Char. 44	to read "Time of first flowering"
Ad. 30	to check whether Ad. 30 also covers Chars. 7 and 18 <i>Leading Expert: yes</i>
Ad. 4, 16, 28	to check whether Ad. 4, 16, 28 also covers Char. 43 <i>Leading Expert: yes</i>

Kumquat (<i>Fortunella Swingle</i>)	TG/FORTU(PROJ.4)
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The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/FORTU(proj.4)), submitted to the TC:

Cover page	to delete <i>Citrus japonica</i> Thunb. Because it is synonym of <i>Fortunella japonica</i> , which belongs to genera ' <i>Fortunella</i> '
Char. 6	state 1 to read "none or very few"
Char. 9	state 2 to read "narrow elliptic"
Char. 10	to reorder states as follows: (1) obtuse, (2) acute, (3) acuminate
Char. 18	- to have states (3) low, (5) medium, (7) high - to check whether to add (+) and explanation on how weight is measured <i>Leading Expert: agreed and provided explanation</i>
Char. 20	to check whether to be indicated as PQ <i>Leading Expert: yes, it is PQ</i>
Char. 21	states 1 and 5 to add "very" <i>Leading Expert: I don't think that it is necessary to add "very". Although I guess the EDC thinks state 1 to state 5 are very thin, thin, medium, thick, very thick in logic, it suits phenotype of varieties that state 1 to state 5 are thin, thin to medium, medium, medium to thick, thick in sense. I would like to keep original state, because there are many characteristics with state 1 to state 5.</i>
Char. 26	to check whether state 1 to read "none or few" <i>Leading Expert: agreed</i>
8.1	to delete the word "All" at the beginning of all explanations
Ad. 9	to provide illustration in form of grid (see TGP/14/1) <i>provided by Leading Expert</i>
Ad. 10	to improve photographs for states 1 and 3 <i>provided by Leading Expert</i>
Ad. 11	to improve photographs: no difference between states 2 and 3 <i>provided by Leading Expert</i>
Ad. 14	to add explanation on what "widest part" means <i>provided by Leading Expert</i>
Ad. 19	- to delete "ratio diameter/height" at top of the grid - to replace "medium" by "compressed" - to reverse order of illustrations according to TGP/14 ("compressed" to "elongated") <i>provided by Leading Expert</i>

Ad. 22	to read "The sweetness is considered as the total soluble solids content, and is determined with a refractometer." <i>Leading Expert: agreed and proposed same change for Ad. 24</i>
Ad. 27	to read "Seed embryony should be determined after removing seed coat."
Ad. 29	"ready for consumption" should be replaced by an objective description of maturity <i>Leading Expert: It is difficult to describe the maturity by an objective description, for example color of skin. When fruits become complete color of the variety, those are sometimes too mature. In the DUS trial an expert evaluates characters, so "ready for consumption" is enough description.</i>
TQ 6	to use states from Char. 20







Hebe (<i>Hebe</i> Comm. ex Juss)	TG/HEBE(proj.5)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013, and the replies provided by the Leading Expert, Mr. Chris Barnaby (New Zealand):

Char. 1	state 3 to read "moderately spreading" and state 4 to read "strongly spreading" <i>Leading Expert: The replacement of horizontal state 4 with strongly spreading reduces information. Horizontal was selected to represent the specific growth form, prostrate to decumbent. Varieties that fit this state strongly spread but they also lack height. Spreading does not clearly convey the very short height and horizontal direction.</i>
Char. 4	- to move QN and (b) one row up - to delete space before colon in English
Char. 11, 12	to check whether char. 11 is really QL; if not, to be combined with char. 12 <i>Leading Expert: There is a genetic basis and it is qualitative.</i>
Char. 12	to delete MG <i>Leading Expert: agreed</i>
Char. 16	to be indicated as ratio and to add (+) and provide illustration <i>Leading Expert: The states are meaningful and should be kept. Combined Ad. for Chars. 16 and 17 provided</i>
8.1	to delete the word "All" i.e. "Unless otherwise stated, all" at the beginning of all explanations
8.1 (a)	to delete "later in the growing season" <i>Leading Expert: agreed</i>
Ad. 10	to check whether to read "The sinus is located in the leaf bud, a gap between the bases of two leaves of a pair when in bud. It can be seen by the naked eye for some varieties but should be observed with a magnifying glass for other varieties." and to delete other text <i>Leading Expert: agree with rewording of first part, but do not agree with deletion of other text, as the additional text provides clarification and the subgroup considered it helpful.</i>
Ad. 17	to provide illustration in form of grid (see TGP/14/1) <i>combined Ad. for Chars. 16 and 17 provided by Leading Expert</i>

Ad. 16: Leaf blade: ratio length/width

Ad. 17: Leaf blade: shape

	← broadest part →		
	(below middle)	at middle	(above middle)
strongly elongated ↑ length/width ratio ↑ slightly elongated ↑ rounded	 1 lanceolate	 4 oblong	 5 oblanceolate
	 2 ovate		
		 3 elliptic	 6 obovate

Ad. 23	to provide photo for state 6 <i>provided by Leading Expert</i>
Ad. 35	explanation to read "Observations are made when half to two thirds of all flowers on a single inflorescence are open comparing younger with older flowers in inflorescence." <i>new wording provided by Leading Expert</i>
Ad. 40	to delete "present" <i>Leading Expert: agreed</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Char. 16	to have states (1) very low to very high (9)
Ad. 16,17	to add grid provided by Leading Expert (see above), to be updated according to TGP/14 with states (1) very low to (9) very high

Lobelia (<i>Lobelia erinus</i> L.)	TG/LOBEL(proj.4)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/LOBEL(proj.4)), submitted to the TC:

1.	- to spell the word "Hybrids" with lower case - keep names together on one line
3.3.1	to add the first sentence of Chapter 8.1 "Characteristics should be examined at the time of full flowering."

5.3 (c)	to clarify color group 3 “blue/violet” (as (2) is light blue, is (3) correct?): Gr. 3 to read “medium/dark blue to violet”? <i>Leading Expert: Gr. 3 to read ‘medium/dark blue to violet’</i>
Char. 12	to check whether state 3 to read “broad elliptic” (see image Ad. 12) <i>Leading Expert: The image for “circular” in Ad. 12 was taken from TGP/14 and was approved by the subgroup, no need to change it.</i>
Char. 17, 18	- to add underlining “Only for varieties with flower type: double.” - to delete “for”
Char. 21	to add (+) with explanation of main color from TGP/14 <i>Leading Expert: To remove the word “main”. Upon further consideration I have realized that there is only ever one color present. If the word “main” was removed I believe this would remove the need for an explanation.</i>
Chars. 29, 30	to check whether to be combined (Char. 29 may not be QL?) – add state 1 “none” for Char. 30 <i>Leading Expert: Char. 29 is QL. Ok to add state 1 “none” for Char. 30</i>
8.1 (a)	to read “Shoot characteristics should be observed on the middle third of the shoot.”
8.1 (c)	to delete “All”
8.1 (d)	to be clarified <i>Leading Expert: Change wording to read “Observe for varieties with single flower types only.”</i>
Ad. 14	to be deleted or only keep states 1 and 4 <i>Leading Expert: to remove states 2 and 3.</i>
Ad. 16	to provide explanation on number of lobes/petals <i>Leading Expert: to add (5 lobes only) under state 1 and (more than 5 lobes) under state 2</i>
Ad. 19	to be improved (arrow with a kink) <i>provided by Leading Expert</i>
Ad. 28	explanation to read “State 2 (elongated and rounded) means that flowers with elongated white zone on lower lip and flowers with rounded white zone on lower lip are both present on the same plant.”
Ad. 29	- state “present” to have note 9 - to move arrow of photo 1 of state “present” to the word “present”
Ad. 32	- states of Char. 32 to be modified to reflect Ad. 32 or Ad. 32 to be improved, e.g. see Ad. 27 second photograph - to add explanation which lobes are overlapping <i>Leading Expert: to change picture for state 1 in Ad. 32 to 2nd picture from state 1 of Ad. 27 and add explanation to Ad. 32</i>
TQ 1	to delete all common name boxes

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Chars. 6, 13	to check consistency of notes (Char. 6 to have notes 1, 2, 3?)
Char. 18, 31	to check whether to add explanation on main color according to TGP/14 (as for Char. 21)

Lomandra (<i>Lomandra</i> Labill.)	TG/LOMAN(proj.5)
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The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/LOMAN(proj.5)), submitted to the TC:

Char. 11 etc.	to replace the term “adaxial” by “upper side” and to add an explanation <i>Leading Expert: agreed and provided explanation to be added to 8.1 (c)</i>
Char. 19	to add explanation on what to be observed <i>provided by Leading Expert</i>
8.1 (a)	to read “The assessment of plant characteristics should be carried out towards the end of active vegetative growth.”
8.1 (b), (d)	to delete the word “All” at the beginning of the explanations
Ad. 4	to improve photograph for state 2 or to use drawings <i>provided by Leading Expert</i>
Ad. 12, 13	to reword according to draft of TGP/14

Tree Peony (<i>Paeonia</i> Sect. Moutan)	TG/PAEON(proj.8)
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Changes to document TG/PAEON(proj.7), proposed by the Enlarged Editorial Committee on January 9 and 10, 2013, and the list of replies provided by the Leading Expert, Ms. Yuan Tao (China), on the basis of an electronic meeting of the Subgroup, which still are to be incorporated in the Test Guidelines for Tree Peony:

General	to correct spelling of common name to "Tree Peony" Leading Expert: agreed
1.	to delete mention of synonyms Leading Expert: <i>only Paeonia moutan Sims is a synonym. OK to delete</i>
2.2	to delete "at least" Leading Expert: <i>agreed</i>
T.o.C	- to reorder characteristics as follows: 1, 8, 5, 6, 9, 2, 7, 11 to 20, 10, 21, 3, 25, 24, 23, 26, 27, 28, 38, 37, 32, 33 to 36, 29, 39, 30, 31, 40 to 49, 22, 4, 50, 51
Char. 3	- to check whether to delete (+) or provide illustration - to have states (1) erect, (2) horizontal, (3) drooping Leading Expert: <i>illustration provided as in proj.4 and agreed to use states (1) erect, (2) horizontal, (3) drooping.</i>



1
upwards



2
outwards



3
downwards

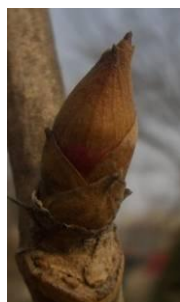
Char. 5, Ad. 5	- to check whether to have notes 1, 2, 3 - state 7 to read "broad ovate" - to be indicated as QN Leading Expert <i>provided characteristic and addendum as follows:</i>
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5. (+)	VG	Mixed bud: shape in lateral view	Bourgeon mixte : forme en vue latérale	Gemischte Knospe: Form in Seitenansicht	Yema mixta: forma en perspectiva lateral		
QN	(a)	narrow ovate	ovale étroit	schmal eiförmig	oval estrecha	Qing Long Wo MO Chi, Rou Fu Rong	1
		medium ovate	ovale moyen	mittel eiförmig	oval media	LuoYang Hong	3
		broad ovate	ovale large	breit eiförmig	oval ancha	Cai Xia, Cong zhong xiao	5

Ad. 5: Mixed bud: shape in lateral view



1
narrow ovate



3
medium ovate

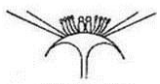
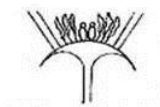
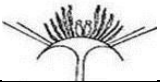

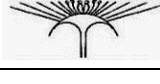
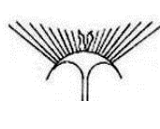
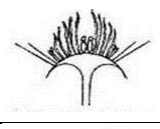
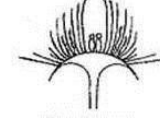
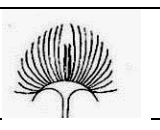



5
broad ovate

Char. 8	to add hyphens ("One-year-old-branch") <i>Leading Expert: agreed</i>
Char. 11	Since it is a part of plant and not the entire plant state 1 to read "erect" and state 2 to read "semi-erect" <i>Leading Expert: agreed</i>
Char. 13	to be deleted
Char. 17	to delete "very" (state 1) <i>Leading Expert: agreed</i>
Char. 19	state 2 to read "narrow ovate", state 3 to read "narrow elliptic", state 4 to read "broad elliptic" <i>Leading Expert: agreed</i>
Char. 21	state 4 to read "oblate" <i>Leading Expert: agreed</i>
Char. 22	delete "presence of" <i>Leading Expert: agreed</i>
Char. 23, Ad. 23	-Ad. 23 needs key with organs to clearly explain differences between states -to provide table to describe each flower type with number of whorls, petaloid stamens, petaloid pistils, number of flowers combined and the illustration for each flower type. <i>Leading Expert: The order of presentation of flower types should be from the least to most complex form: Single, Golden Stamen, Anemone, Lotus, Chrysanthemum, Rose, Golden Circle, Crown, Globular and Proliferate. The two Proliferate forms should be combined together (see below). The current flow diagram should be replaced by the table with illustrations provided (see below).</i>

23. (*) (+)	VG	Flower: form	Fleur : forme	Blüte: Form	Flor: forma		
PQ	(c)	single form	en forme unique	einfache Form	forma simple	Shu Sheng Peng Mo	1
		golden stamen form	en forme d'étamine dorée	goldene Staubblattform	forma de estambre dorado	Yao Huang	2
		anemone form	en forme d'anémone	Anemonenform	forma de anémona	Yin Si Guan Ding	3
		lotus form	en forme de lotus	Lotusform	forma de loto	Yu Ban Bai	4
		chrysanthemum form	en forme de chrysanthème	Chrysanthemenform	forma de crisantemo	Cong Zhong Xiao, Ru Hua Si Yu	5
		rose form	en forme de rose	Rosenform	forma de rosa	Luo Yang Hong	6
		golden circle form	en forme de cercle doré	goldene Kreisform	forma de círculo dorado	Fen Mian Tao Hua	7
		crown form	en forme de couronne	Kronenform	forma de corona	Shou An Hong	8
		globular form	en forme circulaire	Kugelform	forma globular	Fen Yu Qiu	9
		proliferate form	en forme de prolifération	gefüllte Form	en forma de floración	Jun Yan Hong, Xian Tao	10

Ad. 23: Flower: form


Flower type	Note	Number of whorls	Petaloid stamens	Petaloid pistils	Illustration
Single form	1	1~3	None	None	
Golden stamen form	2	2~3	None but stamens very bright and large in center, larger anthers and flat filaments.	None	
Anemone form	3	2~3	Almost all, visibly smaller than normal petals.	None or reduced	
Lotus form	4	4~5	None	None	
Chrysanthemum form	5	6, petals gradually smaller towards the center.	A few, in flower center.	None	
Rose form	6	More than 6, petals becoming smaller from outside to flower center	Few, many stamens disappeared.	None or a few or reduced	
Golden circle form	7	2~3 layers	Many, a whole of normal stamen remains as a yellow circle between interior and outer petals.	None or a few or reduced	
Crown form	8	1~3	Many, and completely petaloid, larger from outside to inside, mixed with some incompletely petaloid. High flower center, crown- shaped.	A few, reduced or disappeared.	
Globular form	9	1~3	All, and completely petaloid, similar to normal petals. Ball-shaped	All. reduced or disappeared	
Proliferate form	10	1~3/4/5/6	None, many or all	None, many, completely petaloid, or disappeared	

Char. 25,
Ad. 25

- Char. to read "Only varieties with flower form: Crown, Globular or Proliferate form
Flower: height of petaloid stamens (in relation to petals)" and to delete state "absent"

Ad. 25: Flower: height



Char. 28, Ad. 28	<p>- states of Char. 28 to read “stripes”, “blocks”, “at center”, “ring”, “at edge”.</p> <p>Ad. 28 to use improved illustration for state (2) “stripes”</p>  <p>and to have the following explanations: stripes (Secondary color relates to the petaloid stamens. Stripes present from base to apex) blocks at center ring (on most whorls excluding outer whorls, giving a circular appearance) at edge</p>
Chars. 30 ⁴	to read: “Only varieties with petaloid stamens: Petaloid stamen: type”
Char. 31	to read: “Only varieties with petaloid stamens: Flower: conspicuousness of anthers”
Char. 32	to read “Petal: blotch”, see 8.1 (d) <i>Leading Expert: agreed</i>
Char. 33	<p>- to read “Petal: length of blotch”</p> <p>- states “very short” to “very long”</p> <p><i>Leading Expert: agreed</i></p>
Chars. 33, 34	<p>Why are the example varieties completely different.</p> <p><i>Leading Expert: proposes changing example varieties (see below)</i></p>





33. (*) (+)	VG	Petal: length of blotch	Pétale : taille de la tache	Blütenblatt: Größe des Flecks	Pétalo: tamaño de la mancha		
QN	(d)	very short	très petite	sehr klein	muy pequeña	Hu Hong	1
		short	petite	klein	pequeña	Luo Yang Hong	2
		medium	moyenne	mittel	media	Cong Zhong Xiao	3
		long	grande	groß	grande	Shu Sheng Peng Mo	4
		very long	très grande	sehr groß	muy grande	Zhong Ban Bai	5
34. (*) (+)	VG	Petal: width of blotch	Pétale : largeur de la tache	Blütenblatt: Breite des Flecks	Pétalo: anchura de la mancha		
PQ	(d)	very narrow	très étroite	sehr schmal	muy estrecha	Chi Tang Xiao Yue	1
		narrow	étroite	schmal	estrecha	LanHai Bi Bo	2
		medium	moyenne	mittel	media	Cong ZhongXiao	3
		broad	large	breit	ancha	Shu Sheng Peng Mo	4
		very broad	très large	sehr breit	muy ancha	Zhong Ban Bai	5

Char. 37	to add “very” to state 5 <i>Leading Expert: agreed</i>
Char. 38	to check whether to have states (1) elliptic, (2) circular, (3) oblate <i>Leading Expert: agreed</i>
Char. 39	to add (+) with explanation of main color (from TGP/14) or delete “main” <i>Leading Expert: to delete “main”</i>
Char. 42	to have notes 1 to 3 <i>Leading Expert: agreed</i>
Char. 44	<p>- to read “Fleshiness of disc” with states (1) weak, (2) medium, (3) strong</p> <p>- to add (+) and reinsert Ad. from proj.4 (Ad. 46)</p> <p><i>Leading Expert: agreed</i></p>

⁴ Corrected from document TC/49/41 “Report on the Conclusions”

Char. 50	to be deleted (not suitable for DUS testing) <i>Leading Expert: agreed</i>
Char. 51	to read "Time of beginning of flowering" <i>Leading Expert: agreed</i>
8.1 (a)	to delete 2 nd sentence <i>Leading Expert: agreed</i>
8.1 (b)	to delete "all" <i>Leading Expert: agreed</i>
8.1 (c)	- to read "Observations on flower, petal, stamen and pistil should be made on the terminal flower on a primary flowering branch. Observations on the petal should be made when the flower is fully open. Observations on the flower form should be made on the flowers with most complex form." - deleted sentence should be moved to Ad. 21 <i>Leading Expert: agreed</i>
8.1 (d)	to read "Observations on the blotch should be made on the first and second inner petal whorl when the flower is fully open. The blotch is an irregularly shaped and sized spot at the base of the inner side of the petal." <i>Leading Expert: agreed</i>
Ad. 9	to be deleted <i>Leading Expert: agreed</i>
Ad. 19	to delete "Indicate the shape and position of observed leaflet blade." The first photo should be replaced by the following explanation: "The outline shape of the leaflet should be observed." <i>Leading Expert: agreed</i>
Ad. 20	to check if (7) present would be correct for (9). <i>Leading Expert: May not. If (9) is carefully observed, we can't see petiole, we call this kind of situation completely split, it is a part of a leaf instead of a separate leaflet. To add the following explanation: The sinus is an indent in the leaflet. The sinus may extend to the midrib, creating a lobe. To avoid confusion: a leaflet has a petiolule, but a lobe does not have a petiolule.</i> - to have a joint Ad. 19, 20 composed of the table on top of current Ad. 19 - to have in addition separate Ad. 19 and Ad. 20 with respective grids from current TG <i>Leading Expert: agreed</i>
Ad. 21	- to add explanation from 8.1 (c) "Observations on the shape of flower bud should be made when the bud is well developed but before it is beginning to show the color." - to provide illustration in form of grid (see TGP/14/1) <i>Leading Expert: to add grid as presented in document TWO/45/34</i>

Ad. 21: Flower bud: shape in lateral view

← broadest part →			
	(below middle)	at middle	(above middle)
narrow (high)			
→	1 narrow ovate		
width (ratio length/width)			
	2 broad ovate	3 circular	
←			
broad (low)		4 oblate	

Ad. 26, 27	to according to draft of TGP/14 <i>Leading Expert: agreed to use color definitions according to TGP/14</i>
Ad. 33	- to delete illustration and sentence - to read "very short (1) less than 1/8 of the length of petal short (2) 1/8 to 1/4 of the length of petal medium (3) 1/4 to 3/8 of the length of petal long (4) 3/8 to 1/2 of the length of petal very long (5) more than 1/2 of the length of petal" <i>Leading Expert: agreed</i>
Ad. 38	to provide illustration in form of grid (see TGP/14) <i>Leading Expert: we provided a grid in proj.6 (Ad.38), but then were asked to remove the grid. We agree to reinstatement. While, in the center column, from the top to end should be states (1) elliptic, (2) circular, (3) oblate instead of the following (see below)</i>

Ad. 38: Petal: shape (excluding petaloid)



1
oblate



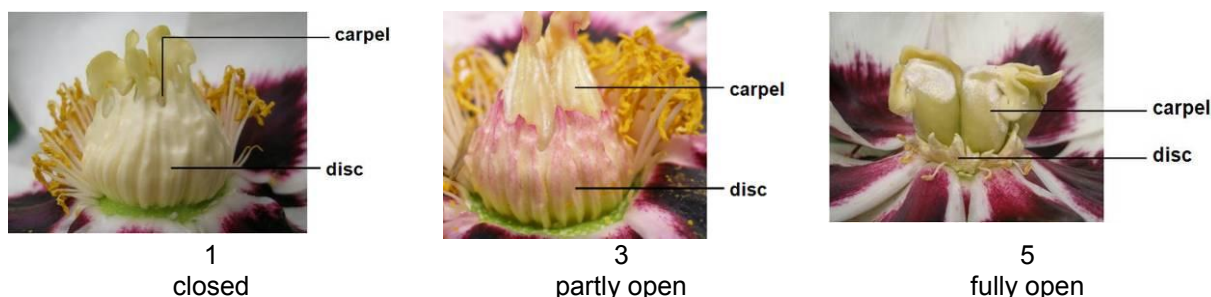
2
circular



3
elliptic

Ad. 42	to replace photos with drawings <i>Leading Expert: to add arrows to show carpel and disc on each illustration; to have one illustration for each state; to delete the first 2 illustrations of example.</i>
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Ad. 42: Pistil: openness of disc



Ad. 51	to read "The beginning of flowering is determined when 10% of all flower buds have opened in the first flowering period" <i>Leading Expert: agreed</i>
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Pomegranate (<i>Punica granatum</i> L.)	TG/PGRAN(proj.5)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/PGRAN(proj.5)), submitted to the TC:

Cover page	to delete German common names "Granatapfelbaum" and "Granatapfelstrauch"
3.1.2	to be moved to Chapter 3.3
4.1.4	to check with Leading Expert: "All observations are done on all 5 plants in the test." Reference to 2 parts of plants of each of the 5 plants is not clear (see 8.1.(e)). To which characteristics does this recommendation refer? <i>Leading Expert: We maintain the present text as general requirement for the observation of parts of plants. Is similar than others TG. In consequence, 8.1 (e) will be changed</i>
5.3	to check harmonization between grouping characteristics and TQ 5 <i>Leading Expert: agreed to keep in TQ 5 only grouping characteristics and to delete chars. 1, 12, 18, 39 from TQ 5</i>
6.5	brackets to be corrected (g)
Char. 4	- to read "Plant: number of one year old shoots ending in thorns" - to check whether to replace (b) by (a). - state 1 to read "none or very few" <i>Leading Expert: agreed with all proposed changes</i>
Char. 5	to check whether to add a note as explanation (see 8.1) <i>Leading Expert: to add (+) and explanation in Chapter 8.2</i>
Char. 8, 15 and 24	to present the characteristic as a shape with states such as "very compressed " to "very elongated", or as "ratio length/width" with states such as "very low" to "very high" <i>Leading Expert: to present characteristics as ratio length/width</i>
Char. 20	state 1 to read "smooth" <i>Leading Expert: agreed</i>
Char. 23	- to check scale <i>Leading Expert: to have notes 3, 5, 7</i>
Chars. 25, 29	to check whether order of chars. should be changed because 25 and 29 are both observed on the fruit in cross section <i>Leading Expert: to move Char. 25 before Char. 29</i>
Char. 27, 28	to check whether to delete (f) <i>Leading Expert: to replace (f) by (e)</i>
Chars. 39, 40	to check whether VG is appropriate <i>Leading Expert: VG/MG is appropriate</i>
8.1	to delete the word "All" at the beginning of all explanations

8.1 (b)	to check whether (b) only applies to Char. 4, then it should become Ad. 4 <i>Leading Expert: to move to Ad. 4</i>
8.1 (c)	to read "...nodes with a low number of leaves."
8.1 (d)	to add definition of time of full flowering <i>provided by Leading Expert</i>
8.1 (e)	Sampling is not clear, see 4.1.4. <i>modified explanation provided by Leading Expert</i>
8.1 (f)	to be deleted and added to Ad. 29 <i>Leading Expert: agreed</i>
8.1	It could be helpful to say somewhere that Chars. 22 to 39 should be observed at time of maturity for consumption. This reference is only made in (e). <i>Leading Expert: note (e) is already included in Chars. 22 to 32. Chars. 33 to 38 are seed characteristics with the note (g). It would be suitable to add in 8.1 (g) the following text: "on fruits at full maturity for consumption"</i>
8.1 (g)	to check at which stage to be observed <i>modified explanation provided by Leading Expert (see comment on 8.1)</i>
Ad. 2	to use usual drawings instead of photos, difference between states 3 and 5 is not clear. <i>Leading Expert: to use corresponding drawings from TGP/14</i>
Ad. 8, 15, 24	see remark on Char. 15 <i>Leading Expert: modified according changes to Chars. 8, 15, 24</i>
Ad. 9	to be improved, state 5 to be illustrated without tip <i>provided by Leading Expert</i>
Ad. 13, 14, 18, 19, 22, 23, 26, 33, 34, 36, 37	to indicate what arrows refer to (length, width, ...) <i>Leading Expert: agreed</i>
Ad. 18, 19	to delete sentence or to add another sentence for width <i>Leading Expert: to delete sentence</i>
Ad. 21	to check whether to delete final part "... and on fully opened flowers" <i>Leading Expert: agreed</i>
Ad. 27	Explanation need improvement according to TGP/14 <i>Leading Expert: to delete Ad. 27, because is enough the explanation according TGP/14. The information that ground color is always yellow is not an information for the over color.</i>
Ad. 29	to delete sentence on top and to add arrows <i>Leading Expert: We prefer to maintain the sentence as an explanation of the characteristic. The end of the lobules of ariles is the end or the beginning of skin, so, is an advisable explanation. Arrows are already included in the picture.</i>
Ad. 30	- to read "...determined by using a refractometer ..." - to delete last sentence - to follow peach example <i>new wording provided by Leading Expert</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Char. 29	to add (d)
Ad. 29	to delete second sentence

Pineapple (<i>Ananas comosus</i> (L.) Merr.)	TG/PINEAP(proj.12)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/PINEAP(proj.12)), submitted to the TC:

1.	to add "In the case of ornamental varieties, in particular, it may be necessary to use additional characteristics or additional states of expression to those included in the Table of Characteristics in order to examine Distinctness, Uniformity and Stability." (draft TGP/7)
3.3	to add that all characteristics should be observed at the time of or after floral induction <i>Leading Expert: to add 3.3.3 with same wording as Chapter 8.1 (a)</i>
4.2.2	to indicate a sample size of 10 plants. <i>Leading Expert: agreed</i>

6.4	to provide cross reference to Chapter 8.4 for synonyms <i>Leading Expert: agreed</i>
Table of Chars.	to check scales of QN chars. <i>Leading Expert: only change: Char. 33 to have notes to 3, 5, 7</i>
Chars. 3, 4	- to read: " Leaf: ..." - to add (+) and explain which leaf should be observed <i>Leading Expert: agreed and provided wording for Ad. 3, 4</i>
Char. 7	- to delete "density of" - to check whether to add a note <i>Leading Expert: add note (a)</i>
Chars. 10 to 13	to delete underlined part
Char. 11	state 4 to read "along all margin" <i>Leading Expert: agreed</i>
Char. 12	to read "Leaf: color of spines" <i>Leading Expert: agreed</i>
Char. 13	to read "Leaf : size of spines" <i>Leading Expert: agreed</i>
Char. 14	- to read "Inflorescence: bract size" - to check note (see 8.1) <i>Leading Expert: to add new note (b)</i>
Char. 15	to check whether QL or whether to read "purple color of apex" and adapt states accordingly (blue, blue red, red) <i>Leading Expert: For CIRAD, 2 states of expression exist (blue purple 98A and purple red 89A). If we add a state, we don't have example varieties for "blue red". It is then more appropriate to keep 2 states (blue and red) and to read "Purple color of apex"</i>
Char. 19	to delete (+)
Char. 20	to have states (3) low, (5) medium, (7) high ⁵ <i>Leading Expert: agreed</i>
Char. 33	to have states (1) small, (2) medium, (3) large <i>Leading Expert: agreed</i>
Char. 34	state 1 to read "cream" <i>Leading Expert: agreed</i>
8.1	- full rewording necessary under consideration of information provided in Chapters 4.1.4 and 8.3. - reference to characteristics is not correct - to check and avoid duplication with 8.3 - to check consistency of allocation of notes in Table of Chars. <i>new wording provided by Leading Expert and approved by the TWF by correspondence</i>
8.2	- to become 8.4 <i>Leading Expert: agreed</i> - to delete reference to Bartholomew and to move it to Chapter 9 <i>Leading Expert: agreed</i> - check whether the synonyms are correct for UPOV purposes <i>Leading Expert: to keep as it is, varietal denominations can't be modified (publication)</i>
Ad. 31	- legend of grid to read "shape of apical half"
Ad. 37	to check formatting of photographs, picture for state 1 missing in pdf
Ad. 37/Ad. 38	sentence in Ad. 37 to be moved to Ad. 38.
Ad. 43	to read "To be assessed with a penetrometer..."
8.3	- Clarification of stages necessary. Is 1-T the time of flower induction? - to be reworded in line with 8.1 <i>Leading Expert: to move to Chapter 8.1 and delete Chapter 8.3</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

3.3.3	to be deleted
Char. 15	to read "Petal: color of apex" with states "blue purple" and "purple red"
8.1 (d)	to delete last sentence (repetition of 1 st sentence)

⁵ Corrected from document TC/49/41 "Report on the Conclusions"

Ad. 3, 4	to read "Measurements" instead of "Measures"
8.3	- to add literature reference to heading "(Bartholomew et al., 2002)" - "Extra sweet" to be spelled with capital "S" - to delete sentences on top

Oyster Mushroom (<i>Pleurotus</i> (Fr.) Quel.)	TG/PLEUR(proj.5)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/PLEUR(proj.5)), submitted to the TC:

Cover page	to check names and add * on first page for Alternative Names <i>Leading Expert: to delete "Hiratake" and "Usuhiratake" and to correct spelling of "Enringi" to "Eringi"</i>
1.	to keep names on one line
6.4	to add information from Chapter 8.1
6.5	to indicate (o), (e), (p) and to refer to 6.4
Table of Chars.	space before specification of (o), (e), (p) and not in italics
Char. 3	- to check whether really different shapes or same shape with different lengths <i>Leading Expert: Stipe has really different shapes and is clear PQ characteristic.</i>
Char. 7	to have states (1) strongly convex, (2) weakly convex, (3) concave
Char. 11	to change "absent" to "none"
Char. 12	to check whether QL and to add (+) with explanation <i>Leading Expert provided illustrations</i>
8.1	- to be moved to 6.4
8.2	to add note (a) and also allocate in Table of Chars. <i>provided by Leading Expert</i>
Ad. 1, 2, 4, 5, 10	- to review illustrations Types I to IV - to read "Example I" to "Example 4" instead of "Types" <i>provided by Leading Expert</i>
Ad. 11	- to read " <i>Pleurotus</i> spp." instead of "Pleurotus spp." - to be edited
TQ 1	genus rows to be deleted
TQ 6	to use states from Table of Chars.
TQ 7.6	to check why this characteristic is not included in the Table of Chars. / TQ 5 <i>Leading Expert: to delete 7.6</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Cover page	Spanish botanical names not in italics
Char. 6	to add (a)
8.3	to be deleted

Sesame (<i>Sesamum indicum</i> L.)	TG/SESAME(proj.10)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/SESAME(proj.10)), submitted to the TC:

Char. 6	to delete (+)
Char. 9	- to read "Leaf blade: ratio length/width" - to have states from "low" to "high" - to check number of notes <i>Leading Experts: notes are correct, but example varieties need to be corrected</i>
Char. 12	to be deleted <i>Leading Experts: agreed</i>

Char. 15	to check meaning of Chars. 15 and 18 and whether they can be combined? <i>Leading Experts: to keep Chars. 15 and 18 as they are</i>
Char. 16	to read " <u>Stem</u> : number of flowers per leaf axil" <i>Leading Experts: to read "Flowering stem: ..." (as the part where the flowers and nectaries are)</i>
Chars. 16, 17	to be moved after Char. 6 <i>Leading Experts: to move before Char. 15</i>
Char. 17	to read: " <u>Stem</u> : nectaries" <i>Leading Experts: to read "Flowering stem: ..." (as the part where the flowers and nectaries are)</i>
Char. 19	- to read "on inner side" - to check whether Char. 19 can be deleted - if char. not to be deleted, to add illustration of corolla, outer side of corolla and inner side of lower lip (Chars. 15, 18, 19) <i>Leading Experts: to keep Char. 19, new illustration provided</i>
Char. 28	- to delete note (a) - to delete VG
Char. 29	to delete note (c)
8.1 (c)	to read "Characteristics related to capsule and seed should be observed at time of maturity" <i>Leading Experts: agreed</i>
Ad. 4	to provide improved illustration (There are developed capsules in the lowest node, thus the indicated one cannot be the first node with flowers.) <i>Leading Experts: to delete illustration and only keep text</i>
Ad. 6	to be deleted (see note (c)) <i>Leading Experts: agreed</i>
Ad. 9	- to delete text and change according to Char. 9 (see above) <i>Leading Experts: agreed</i> - provide better illustrations <i>Leading Expert KR: no better photos available</i>
Ad. 18, 19	to be deleted <i>Leading Experts: provided new illustration with indication of outer side of corolla and inner side of lower lip</i>
Ad. 21	to add explanation of "carpel" (one carpel contains two seeds) <i>Leading Expert KR provided improved illustration</i>
Ad. 22, 23	to clarify and improve illustration <i>Leading Experts: no change necessary</i>
Ad. 28, 29	wording to be improved <i>provided by Leading Experts</i>
9.	literature information to be completed <i>provided by Leading Experts</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Chars. 16	to read "Flower: main color of corolla"
9.	to revise and complete literature references

Foxtail Millet (<i>Setaria italica</i> (L.) P. Beauv.)	TG/SETARIA(proj.8)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/SETARIA(proj.8)), submitted to the TC:

Cover page	- to check if Foxtail Millet is the proper common name (see common names extracted from GRIN) - to check whether TG only covers subsp. <i>italica</i> <i>Leading Expert: It is for sure that Foxtail Millet is the proper common name and our TG only covers subsp. italica. Although there are many names such as Italian millet and German millet, Foxtail millet is the most popular name.</i>
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Table of Chars.	to move growth stages to first line of each char.
Char. 1	to be indicated as QN
Char. 4	state 1 to read “upright”, state 2 to read “semi-upright” <i>Leading Expert: agreed</i>
Char. 5	to read “Plant: anthocyanin coloration of leaf collar”
Chars. 7, 10, 17	to check whether QL; if not, to have notes absent or weak (1), medium (2), strong (3) <i>Leading Expert: yes, it is QL</i>
Char. 8	state 3 to read “slightly drooping”, state 4 to read “strongly drooping” <i>Leading Expert: agreed</i>
Char. 14	to check whether always present; if not, to have state 1 “absent or very weak” and 5 “very strong” <i>Leading Expert: agreed</i>
Char. 21	to read “Panicle: type” <i>Leading Expert: agreed</i>
Ad. 2	to be deleted <i>Leading Expert: agreed</i>
Ad. 5	to only keep photo for state 3 and add arrow showing to leaf collar <i>Leading Expert: agreed</i>
Ad. 8	to read “The observation should be made on leaves in the middle third of the stem.” <i>Leading Expert: agreed</i>
Ad. 11	to read “The observation should be made early in the morning, before the anthers split.” <i>Leading Expert: agreed</i>
Ad. 15, 18, 20, 22	- to delete sentence on top and to add it to box for Ad. 18 “excluding peduncle” <i>Leading Expert: agreed</i>
8.3	to check spelling <i>done by Leading Expert</i>
9.	to check whether to correct spelling of category in 1 st reference <i>Leading Expert: corrected</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Chars. 21, 24	to provide clarification regarding primary branches, the structure of panicles <i>Leading Expert: in Ad. 21, note 7, the wording under “branched” in brackets should read “elongated primary branches”</i>
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Tomato rootstocks	TG/TOM_ROOT(proj.5)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/TOM_ROOT(proj.5)), submitted to the TC:

Table on cover page	- to correct italics - to delete botanical names in FR, DE, ES <i>Leading Expert: agreed</i>
Alternative names	lines needed between species, probably no common names and synonyms to be listed (see Chapter 1) <i>Leading Expert: agreed and there are no other common names</i>
1.1	to delete synonyms <i>Leading Expert: agreed</i>
1.2	to be deleted – if necessary, to add reference to TG/44/11 on cover page under “Associated documents” <i>Leading Expert: I do not agree to delete the remark under 1.2 as the name of the guideline is tomato rootstock and DUS experts should be made aware that there are some tomato rootstocks that belong to other species and should be treated under TG/44/11. I agree to add document TG/44/11 on the cover page under “Associated documents”</i>
5.3	to review consistency with TQ 5 (TQ chars. included in 5.3?) <i>Leading Expert: to add Char. 28 to TQ 5</i>

Char. 11	- to read "Pedicel: length" - to check if (b) should be added. <i>Leading Expert: yes, add (b)</i>
Chars. 11 to 19	to review order of chars. (botanical or chronological, respect order in TG/Tomato) <i>new order provided by Leading Expert</i>
Char. 14	to check whether to be indicated as QL <i>Leading Expert: I prefer to keep as QN</i>
Chars. 27.2, 27.3	to be indicated as QL
Char. 29	to check whether really a QL char. <i>Leading Expert: remains QL</i>
Char. 32	to delete underlining in title: <i>Oidium neolycopersici</i>
8.1	to delete the word "All" at the beginning of each explanation
Ad. 2	to read "To be observed after fruit set on 5 nodes."
Ad. 4	to read "The mean length of the internodes between the 1st and 4th trusses should be assessed." <i>Leading Expert: agreed</i>
Ad. 11	height is indicated – not length (to curve arrow) <i>provided by Leading Expert</i>
Ad. 13	- to delete text because reference to apex is not relevant - to change illustration of state 4 <i>Leading Expert: In order to stay consistent with the tomato guideline TG/44/11, it should be kept as it is.</i>
Ad. 16	- to read "The gene for green shoulder might not be clearly expressed in some conditions." and to delete rest of the sentence <i>Leading Expert: agreed</i>
Ad. 21	to delete method and add explanation on autonecrosis <i>provided by Leading Expert</i>
Ad. 22	- 9.3: to delete control varieties for state Moderately resistant the example "Anahu x Monalbo" - at the state Highly resistant add the example "Anahu x Casaque Rouge" to the already mentioned Anahu and Anabel.
Ads. 22 to 32	- 9.2: to replace "Not applicable" by "1 replicate" - to improve wording of 12 (to check if Char. 29 is QL) <i>Leading Expert: To replace first sentence of 12 ("Interpretation of data in terms of UPOV characteristic states") by: "Interpretation of test results in comparison with control varieties". As far as QL in Char 29 is concerned, yes, it is QL.</i>
Ads. 24 to 32	9.1: to add the word "plants" after the number of plants
Ad. 23, 24, 25	to add ":" after Critical control points
Ad. 23	to delete note at the end of the Ad.
9.	- to correct 1 st reference: Caranta C; - to present ISF reference in full - reference Laterrot 1982 to be deleted
TQ 1	to be presented with 3 options
TQ 4	to be completed <i>provided by Leading Expert</i>
TQ 6	to use states from Table of Chars.

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Cover page, 1.1, TQ 1	to correct spelling of botanical name: " <i>habrochaïtes</i> " instead of " <i>habroichaïtes</i> "
Char. 11	to be moved after Char. 15
Ad. 1	to indicate notes and states for illustrations
Ad. 3	to check whether to be deleted
Ad. 17	to improve drawing for state 4

2. REVISIONS

Common Vetch (<i>Vicia sativa</i> L.)	TG/32/7(proj.5)
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The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/32/7(proj.5)), submitted to the TC:

4.2.3	to remove the word “plants” after “3 off-types” at the end of last sentence (in English only)
Char. 2	delete “the” (twice) (in English only)
Char. 4	to delete growth stage because Ad. is more precise.
Char. 7	to read “Leaf: shape of apex”
Char. 17	state 3 to read “very irregular” and to be indicated as QN
Chars. 19, 21	to check whether states to read as follows (based on drawings in Ads. and according to TGP/14): 19. Seed: brown ornamentation (1) absent, (2) speckles, (3) blotches, (4) speckles and blotches 21. Seed: blue-black ornamentation (1) absent, (2) spots, (3) blotches, (4) spots and blotches <i>Leading Expert: agreed</i>
Ad. 8	illustrations to be deleted
Ad. 18	to replace “overshadowed” by “obscured”
TQ 6	to replace “diffuse alone” by “speckles”

Gladiolus (<i>Gladiolus</i> L.)	TG/108/4(proj.8)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/108/4(proj.8)), submitted to the TC:

2.2	to delete “of commercial standard”
Table of Chars.	to check all MG indications in whole table <i>Leading Expert: change all VG/MG/MS indications to VG/MS</i>
Char. 10	to use botanical terms to make it clearer <i>Leading Expert: according to me it is impossible to make it clearer with the use of botanical terms. The terms we use now are common with the experts in Gladiolus. We asked the experts for better wording but this is the most clear wording according to the experts.</i>
Char. 11	to be indicated as QN
Char. 17	to move information in brackets to Chapter 8 (to refer to varieties with secondary color, rather than multicolored varieties) <i>provided by Leading Expert</i>
Char. 19	to read “none” instead of “absent”
Char. 20, Ad. 20	to check whether to refer to “radial stripes” instead of “bands” <i>Leading Expert: It is more a band than a stripe because there is a very slight deviation in the line of spots. A stripe means that the spots are in a straight line but in this case there can be some deviation from a line.</i>
Char. 23	to be indicated as QN
Char. 26	to check whether QL, or whether to delete and add state “absent (or very short)” to Char. 27 <i>Leading Expert: According to our expert it is very clear absent or present. It is clear QL. There are more Char. for stripe. Our conclusion is to leave it as it is.</i>
Char. 30	to check whether QL, or whether to combine and add state “absent” to Char. 31 <i>Leading Expert: Clear QL. It will be very difficult to combine with Char 31. Same as for 26</i>
Char. 31	to be indicated as QN instead of QL
Char. 36	to replace “strongly” with “very”

Char. 42	- to be indicated as QN instead of PQ - to delete wording of underlined part
Char. 43	to add (+) with explanation of main color <i>provided by Leading Expert</i>
Char. 46	to read "Anther: color of connective"
Char. 48	to move "(excluding base)" to explanation <i>explanation provided by Leading Expert</i>
Char. 52	to check whether VG is appropriate <i>Leading Expert: This Char. is easy to observe visually. If there is a large collection with the example varieties on the field the observation can be made visually even if the collection is not complete but there is an collection of own varieties on the field representing the range of maturity.</i>
8.	to add Chapter 8.1 to provide illustration of outer tepal, inner tepal and middle inner tepal <i>provided by Leading Expert</i>
8.1	to become Chapter 8.2
Ad. 3	to read "Observations on leaf width should be made on the second to last leaf."
Ad. 6	text to read only "Length"
Ad. 8	to specify when observations should be made <i>Leading Expert: the observation should be made on all flowers which are fully open at the same time, including the first flower.</i>
Ad. 15	to add explanation on where the broadest part is <i>provided by Leading Expert</i>
Ad. 16, 34, 35, 48	to use note in Chapter 8.1, or separate and place in relevant parts of Chapter 8 <i>Leading Expert: to create separate Addendums</i>
Ad. 42	to indicate inner and outer side <i>illustration indicating inner side provided by Leading Expert</i>
Ad. 46	to read "The connective is the tissue between the two parts of the anther."
Ad. 52	to read "Time of beginning of flowering is the time when 50 % of the plants have the first flower fully open."

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

T.o.C.	to check method of observation <i>correct indications for method of observations provided by Leading Expert</i>
Ad. 8	to specify when observations should be made <i>Leading Expert: to add the following wording to Chapter 8.1: "Observations should be made when the first flower is fading."</i>
Ad. 15	sentence to read "The broadest part of the flower should be observed."

Endive (<i>Cichorium endivia</i> L.)	TG/118/5(proj.4)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/118/5(proj.4)), submitted to the TC:

Cover page	- French common names to read "Chicorée frisée, Chicorée scarole" - to check whether the TG should cover the whole species <i>Leading Expert: yes, the TG should cover the whole species</i>
2.3	to delete "at least"
5.3	to read "Firstly, the collection ..."

5.3	- the grouping makes reference to sub-species that are not covered by the Test Guidelines <i>Leading Expert: TG to cover whole species, see comment on cover page</i> - grouping needs to be based on characteristics in the Test Guidelines and needs to explain how to handle those varieties that fall in 1 or more groups, see e.g. Vegetable Marrow (TG/119/4 Corr., p. 5) - to add an explanation that in cases of doubt to which group a variety belongs to, it should be tested in all relevant groups <i>provided by Leading Expert and approved by the TWV by correspondence (remark of the Office: TQ 7.1 modified accordingly)</i>
Char. 2	state 1 to read "upright", state 2 to read "semi-upright"
Char. 4	to delete "on the surface"
Char. 26	to add (+) with explanation on when harvest maturity is reached <i>provided by Leading Expert</i>
Char. 27	to check whether to be indicated as MG <i>Leading Expert: yes, to be indicated as MG</i>
8.1	- to be transformed (see comment on Chapter 5.3 above) <i>Leading Expert: to rename Chapter "Endive Growth Sub-Types" and to delete all text, only keep photos with names of sub-types</i>
8.2	to delete the word "All" at the beginning of explanations (a) to (c)
Ad. 7	to be deleted
Ad. 8	to be deleted
Ad. 13	to delete arrow on right hand side of drawing
Ad. 19	to be deleted
Ad. 25	to add note that reference to RHS colour chart is indicative

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Char. 18	to have states "very low" to "very high"
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Watermelon (<i>Citrullus lanatus</i> (Thunb.) Matsum. et Nakai)	TG/142/5(proj.5)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/142/5(proj.5)), submitted to the TC:

Cover page	to add French name "Melon d'eau" to table
Char. 6	according to TGP/14, as it is a ratio length/width char. it should have states (1) low to (3) high <i>Leading Expert: agreed</i>
Char. 8	to correct spelling of example variety of state 7 to "Cadanz" <i>Leading Expert: agreed</i>
Char. 11	to correct spelling of example variety of state 6 to "Panonnia" <i>Leading Expert: agreed</i>
Char. 12	to correct spelling of example variety of state 4 to "All Sweet" <i>Leading Expert: agreed</i>
Char. 14	state 5 to read "acute" <i>Leading Expert: agreed</i>
Char. 16	to add (+) with explanation of ground color <i>provided by Leading Expert</i>
Char. 20	to add (+) with explanation of main color of stripes <i>provided by Leading Expert</i>
Char. 21	to correct spelling of example variety of state 4 to "A graine rouge à confire à chair verte" <i>Leading Expert: agreed</i>
Char. 25	- to delete "degree of " - example varieties of state 3 to read "Asahi Miyako Hybrid, Bego" <i>Leading Expert: agreed</i>

Char. 27	to correct spelling of example variety of state 5 to "Panonnia" <i>Leading Expert: agreed</i>
Char. 28	- to correct spelling of example variety of state 1 to "SP 1" - example varieties of state 6 to read "Asahi Miyako Hybrid, Sugar Baby, Topgun" <i>Leading Expert: agreed</i>
Char. 28	to add (+) with explanation of main color of flesh <i>provided by Leading Expert</i>
Char. 31	to correct spelling of example variety of state 3 to "Panonnia" <i>Leading Expert: agreed</i>
Char. 32	- to have states (1) very low to (5) very high - to add (+) and provide illustration <i>Leading Expert: agreed and provided illustration</i>
Char. 33, 34, 35	to add explanation of ground color & over color (see TGP/14) <i>provided by Leading Expert</i>
Char. 34	- to check whether QL; to be deleted if not QL and to add state "absent" to Char. 35 <i>Leading Expert: Char. 34 is QL (Reference to literature: Cucurbit Genetics Cooperative, 2007: Gene List for Watermelon) Genes RR TT WW produce black spotted seeds. If these genes are not dominant homogenous present, there will be no black spots.</i>
Char. 38	to correct numbering of Char. below Char. 38 to 38.1 instead of 39.1
Chars. 38, 39	to add QL indication to each characteristic
8.1	- to delete "Right stage for observation" - to delete the word "All" i.e. "Unless otherwise stated, all" at the beginning of all explanations
8.1 (c)	- to keep only first sentence - to create separate note for last sentence and to explain that ground color is the light color, stripes are the dark color <i>Leading Expert: agreed to only keep first sentence, but to provide explanation in Chapter 8.2</i>
8.1 (b) and (d)	text should not be underlined
Ad. 6	to correct position of arrows <i>provided by Leading Expert</i>
Ad. 8	to only illustrate states 3, 5, 7, to delete 1 and 9 <i>Leading Expert: prefer to keep 1 and 9, but agree</i>
Ad. 10	to be deleted <i>Leading Expert: agreed</i>
Ad. 12	to be improved (watermelon shapes instead of leaf shapes) <i>provided by Leading Expert</i>
Ad. 14	to correct position of arrows as in proj.3
Ad. 16	to be deleted, in a possible future revisions photos taken under the same conditions can be included <i>Leading Expert: agreed</i>
Ad. 19	difference between ground color and stripes is not clear, see also states of expression for Chars. 16 and 20. <i>explanation provided by Leading Expert</i>
Ad. 20	- explanation not clear: chars. 16 and 20 have different states of expressions - to add explanation of main color <i>explanation provided by Leading Expert</i>
Ad. 21	to replace photo for state 5 (focus on relevant aspect, better light.) <i>provided by Leading Expert</i>
Ad. 27	to replace picture for state 7 <i>provided by Leading Expert</i>
Ad. 29	to be deleted <i>Leading Expert: agreed</i>
Ad. 31	to be deleted <i>Leading Expert: agreed</i>
Ad. 33	to improve photo of state 6 <i>provided by Leading Expert</i>
Ad. 35	photos are too cloudy, to improve illustrations <i>provided by Leading Expert</i>
Ad. 36	to improve photo for state 3 <i>provided by Leading Expert</i>

TQ 4	to be completed with missing breeding scheme <i>provided by Leading Expert</i>
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(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Char. 14	state 4 to read "rounded to acute"
Char. 32	to add method(s) of observation, type of expression and note from Chapter 8.1 if applicable

Opium/Seed Poppy (<i>Papaver somniferum</i> L.)	TG/166/4(proj.4)
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The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/166/4(proj.4)), submitted to the TC:

Cover page	to add Spanish name "Opio"
4.2.2	to read "For the assessment of uniformity, 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." <i>Leading Expert: agreed</i>
Chars. 1 to 5	to read " Leaf: ..." (see explanation (a)) <i>Leading Expert: agreed</i>
Char. 5	to read "Leaf: depth of incisions of margin" <i>Leading Expert: agreed</i>
Char. 6	to delete states 1 and 9 as there are no example varieties <i>Leading Expert: agreed</i>
Char. 7	to check whether QL <i>Leading Expert: yes, it is QL (discussed at TWV/46)</i>
Char. 9	state 2 to read "in ring at base only", state 3 to read "in ring at base and on bud" <i>Leading Expert: agreed</i>
Char. 11	- to read "Petal: marking" - state 2 to read "blotch" <i>Leading Expert: agreed</i>
Char. 12	to read "Petal: color of marking" <i>Leading Expert: agreed</i>
Char. 13	to read "Petal: extension of marking from base" and to have the following states: (1) below widest part, (2) up to widest point, (3) above widest part <i>Leading Expert: agreed</i>
Char. 17	to check whether QL <i>Leading Expert: yes, it is QL (discussed at TWV/46)</i>
Char. 18	- to read "Capsule: shape in longitudinal section" - state 2 to read "cylindrical" - state 5 to read "ovate" (see photo Ad. 18) <i>Leading Expert: agreed</i>
Char. 24	to be indicated as PQ instead of QL <i>Leading Expert: agreed</i>
Char. 25	to read "Stigmatic disc: number of carpels" <i>Leading Expert: agreed</i>
Char. 26	to read "Stigmatic disc: apex of carpels" <i>Leading Expert: agreed</i>
Char. 28	to delete (+) <i>Leading Expert: keep (+), to delete (c) and 8.1 (c) to become Ad. 28</i>
Chars. 29 to 32, Ad. 29 to 32	- to check whether these characteristics are necessary for DUS If no, chars. to be deleted; if yes, Leading Expert to provide full methodologies (with sampling) and data (over year information) to demonstrate reliability of these chars. - to check whether to be indicated as MS and whether 9 notes are needed <i>Leading Expert: It is necessary for DUS. The effect of year is significant at extreme weather conditions but the varieties keep their rank. Data will be prepared for TWV/47. It is QN / MG (as in TG/276/1 Hemp)</i>

8.1	editing/rewording to be done (delete semi colons, ...) <i>Leading Expert provided new wording and moved (c) to Ad. 28</i>
Ad. 11	to provide drawing for state 1 <i>provided by Leading Expert</i>
Ad. 13	to indicate widest part with a line <i>provided by Leading Expert</i>
Ad. 18	- to be placed in a grid (see TGP/14/1) - to delete left picture for state 4 - state 5 to read "ovate" and to delete "right hand picture" <i>provided by Leading Expert</i>
Ad. 26	to improve illustration (indicate apex of carpel) <i>provided by Leading Expert</i>
Ad. 29-32	see comment on Chars. 29-32 <i>Leading Expert: see comment on Chars. 29-32 and add provided text on samples (Methodology is according to Biomed. Chromatogr., 2001,15,45.; Biomed. Chromatogr., 2002,16,390.)</i>
TQ 4	to be completed <i>Leading Expert: to incorporate TQ 4 as in TG/166/4(proj.2) (The decision of TWV 46 was to change the detailed form for this one.)</i>

Osteospermum	TG/176/5(proj. 4)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/176/5(proj. 4)), submitted to the TC:

5.3	to check whether to add Char. 5 (TQ 5) <i>Leading Expert: no, Char. 5 not to be added</i>
Char. 21	according to TGP/14, as it is a ratio length/width char. it should have states (1) very low to (5) very high <i>Leading Expert: agreed</i>
Char. 24	to read "Ray floret: proportion with rolled margin" <i>Leading Expert: agreed</i>
Char. 30	to replace "prominence" with "conspicuousness" <i>Leading Expert: agreed</i>
Char. 32	- to delete underlining <i>Leading Expert: agreed</i> - to read "Ray floret: color of lower side" <i>Leading Expert: NO, "color group" to be kept.</i> <i>The characteristic does not describe the color of the lower side but the color group (e.g. brown purple to brown violet, state 10) to which the variety belongs to. Within the states of expression there can be variation between different varieties.</i>
8.1	to delete the word "All" i.e. "Unless otherwise stated, all" at the beginning of all explanations
Ad. 8	to reword "... In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color." (see draft TGP/14) <i>Leading Expert: agreed</i>
Ad. 17, 18	to add explanation of main color <i>provided by Leading Expert</i>
Ad 27, 28, 29	to reword according to draft of TGP/14 <i>Leading Expert: agreed</i>
Ad. 30	to add explanation (see char. 30) <i>provided by Leading Expert</i>
Ad. 32	photos to be deleted <i>Leading Expert: agreed</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Ad. 31	to correct position of textbox (see proj.2)
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Phalaenopsis (<i>Phalaenopsis</i> Blume)	TG/213/2(proj.7)
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(a) The following table contains the comments by the Enlarged Editorial Committee at its meeting on January 9 and 10, 2013. Unless otherwise indicated, all comments are already incorporated in the draft Test Guidelines (document TG/213/2(proj.7)), submitted to the TC:

Cover page	to add Spanish name "Orquídea Mariposa"
Char. 5	to amend according to draft of TGP/14 (either ratio or shape) <i>Leading Expert: Characteristic to read "Leaf: shape" and to delete MS in consequence</i>
Char. 8	to check whether to move example varieties from note 2 to note 3 <i>Leading Expert: Example varieties are in the right place. Those are really moderately asymmetric.</i>
Char. 27	to amend according to draft of TGP/14 (either ratio or shape) <i>Leading Expert: Characteristic to read "Dorsal sepal: shape" and to delete MS in consequence</i>
Chars. 31, 56	to check whether QL or whether to have 3 states (absent or weak (1); medium (2); strong (3)) <i>Leading Expert: This is really QL. Most varieties are really not twisted.</i>
Char. 52	- to amend according to draft of TGP/14 (either ratio or shape) <i>Leading Expert: Characteristic to read "Petal: shape" and to delete MS in consequence</i> - to check if states of char. 27 and 52 can be presented in the same way. <i>Leading Expert: to delete states 1 and 9 from Char. 52</i>
Char. 70	- state 7 to read "obtrullate"
Char. 71	to delete (+)
Char. 84	state 3 to read "medium"
Ad. 5	to be presented without table <i>provided by Leading Expert</i>
Ad. 12	to amend according to draft of TGP/14
Ad. 21, 22, 71	- to be moved to Chapter 8.1 and combined with current illustration in 8.1 with note for all flower and lip chars. covered (add whiskers to 8.1 (c)) <i>new illustration for 8.1 provided by Leading Expert</i> -Ad. 21 and 22 to stay, but delete everything except for indication of length and width, delete Ad. 71 from title <i>new Ad. 21, 22 provided by Leading Expert</i>
Ad. 70	to be provided in form of grid (see TGP/14) <i>provided by Leading Expert</i>

(b) Changes proposed by the TC-EDC in March 2013, which are to be included in the Test Guidelines submitted to the TC:

Ad. 70	to move illustrations from top row to middle row
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[End of Annex IV and of document]