



TWF/35/11

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY
FOR
FRUIT CROPS**

**Thirty-Fifth Session
Marquardt (Potsdam), Germany
July 19 to 23, 2004**

REPORT

adopted by the Technical Working Party for Fruit Crops

Opening of the Session

1. The Technical Working Party for Fruit Crops (TWF) held its thirty-fifth session in Marquardt (Potsdam), Germany, from July 19 to 23, 2004. The list of participants is reproduced in Annex I to this report.
2. The TWF was welcomed by Mr. Johann Habben, Head of Department for DUS Testing at the Bundessortenamt.
3. The session was opened by Mr. Erik Schulte (Germany), Chairman of the TWF, who welcomed the participants and, in particular, new participants, to the TWF.

Adoption of the Agenda

4. The TWF adopted the revised agenda as reproduced in document TWF/35/1 Rev.

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

5. Mr. Johann Habben, Head of Department for DUS Testing at the Bundessortenamt, made a presentation on the work of the Bundessortenamt, a copy of which is attached as Annex II to this document.

6. The expert from Spain reported that DUS testing for fruit concerned mainly strawberry, citrus, peach, grapevine and other fruit species. However, applications had been received for the first time for walnut (for nut and for wood production) and hazelnut and also for apple for industrial juice production. It was being considered whether separate DUS testing centers should be established for fruit apple varieties and for varieties developed for industrial juice production. In addition, the expert reported that their DUS protocols were being revised for consistency with the CPVO protocols. With regard to grapevine, he noted that UPOV, OIV and IPGRI had developed guidelines for describing varieties of grapevine and that OIV had decided to revise its protocol and planned to do this in harmony with the UPOV Test Guidelines. The TWF was also informed that an annual training course will be organized as a need for national experts to inform them of the information issued by UPOV.

7. The TWF heard that Argentina had recognized plant breeders' rights (PBR) since 1973. In 1991, Argentina issued its first titles of protection for new varieties of plants. Since 1991, 1,080 titles of protection had been issued and, currently, there were 1,125 titles in force. Of the titles in force, 9% concerned fruit species. In total, there had been 174 applications for PBR, of which 100 had been granted and 91 titles which were still in force. The main species were strawberry (24 varieties), apple (16), Prunus (22), blackberry (9) and rootstocks (8). Titles had been granted to domestic breeders for apple, grapefruit and pear, with other crops relating to foreign-bred varieties. The expert added that there had recently been a lot of applications for varieties of ornamental species and some of these concerned native species.

8. The expert from Israel recalled that, since the introduction of the PBR legislation in 1973, there had been approximately 3,500 applications and approximately 2,500 titles had been granted. On an annual basis, around 100 applications were received, of which 15% concerned fruit crops. The greatest number of applications related, in descending order, to Japanese plum, strawberry and grapevine, followed by various other species including apple, nectarine, mango and citrus. There had been a significant reduction in the number of applications for varieties of citrus. It was further noted that there were very many foreign applications for strawberry and grapevine.

9. The expert from Hungary reported that Hungary had become a member of the European Union on May 1, 2004. As a part of the process to harmonize laws and practices concerning variety examination, there had been a program of cooperation with the Bundessortenamt in Germany. Hungary was being integrated into the CPVO testing system and would be undertaking DUS testing for the CPVO for apricot, grapevine, peach and sweet cherry. In 2003, Hungary had received applications for PBR for grapevine (1 variety), raspberry (2), black currant (1) and strawberry (1). Titles were granted for three apple fruit varieties, one apple rootstock, one pear, one red currant and one strawberry variety. A total of 36 varieties had been accepted on the national list, covering grapevine, apple, Japanese pear, medlar, European plum, peach, red currant, black currant and strawberry.

10. The expert from Mexico reported that, since the introduction of PBR in 1996, a total of 569 applications had been received for 151 varieties of ornamental plants (27%); 258 varieties of agricultural crops (44%); 118 fruit varieties (21%); 39 vegetable varieties (7%) and three other varieties (1%). Applications had been received from Mexico (38%); the United States of America (37%); France (10%); Netherlands (8%) and other countries (7%). With regard to fruit varieties, the main species were strawberry (mainly bred in the USA), mango (Mexico), apple (Mexico), kiwifruit (New Zealand), limes (Mexico), mandarin (USA), coffee (Mexico), avocado (Mexico and USA), cherry, raspberry and blackberry. Titles had been granted to four varieties of avocado from Mexico.

11. The TWF heard from the Brazilian expert that PBR titles had been granted to a total of 526 varieties, of which eight were for fruit varieties. There were currently 13 applications for fruit varieties covering strawberry, pineapple, apple, pear and grapevine.

12. The expert from Romania provided information on a training program for 12 crop experts being operated with assistance from the Ireland, Denmark and United Kingdom. The law in Romania, based on the 1991 Act of the Convention, had been promulgated in 1998. Around 100 applications had been received and around 40 titles granted. It was explained that most applications in Romania concerned applications for protection, covering species like strawberry, peach, apple, apricot, cherry, grapevine and Hippophae. The law would be amended to be in conformity with EU regulations.

13. The TWF were informed by the expert from Poland that Poland had become a member of the European Union on May 1, 2004. In 2004, DUS testing was being conducted for pome fruit (39 varieties), stone fruit (21), berry fruits (23) and strawberry (31). With regard to legislation, it was reported that the Seed Industry Act law governed the national list system and the Plant Variety Protection Act, which was in line with the 1991 Act of the UPOV Convention, offered protection to all plant genera and species.

14. The representative from the International Tropical Fruits Network (TFNet) explained the nature of that organization and informed the TWF that it had a total of 55 members, comprising governments, organizations and private sector enterprises. He explained that TFNet had participated in the fourth and fifth Asian Regional Technical Meetings for Plant Variety Protection and had a particular interest in the development of Test Guidelines for durian, rambutan and papaya. He recalled that papaya was the seventh most widely grown crop on a global basis with annual production of approximately 6 million tonnes.

15. An expert from the Republic of Korea reported that the thirty-eighth session of the Technical Working Party for Vegetables (TWV) had been held in the Republic of Korea in June 2004 and was attended by approximately 60 participants. Prior to the TWV session, a one-day national workshop had been organized with the support of the UPOV Office and the TWV. The objective of that workshop had been to increase the understanding of the national experts concerning technical issues of PBR. As of May 31, 2004, 1,835 applications for PBR had been received and 937 varieties had been granted protection. These were divided into cereals (32%), vegetables (9%), fruits (6%), ornamentals (45%), industrial crops (7%) and others (1%). Fruit varieties accounted for 52 titles of protection including apple (25%), pear (36%), peach (29%) and grapevine (10%).

16. The expert from Japan reported that there had been a total of 1,280 application for PBR in 2003, of which 85% concerned ornamental plants and 3.6% fruit crops.

17. The expert from Canada reported that there had been a total of 555 applications for PBR since July 2003, of which 18 concerned fruit varieties. Of those 18, 17 had been made by foreign breeders. The main crops were apple, strawberry, cherry, blackcurrant and pear.

18. The expert from the Czech Republic reported that the Czech Republic had become a member of the European Union on May 1, 2004. A total of 102 fruit varieties had been granted protection and there were 62 applications in process.

19. The TWF heard from an expert from Slovakia that that country had also become a member of the European Union on May 1, 2004. The Regulations of the Variety and Seeds Law had been amended to bring it into line with the requirements of the European Union. The PBR law was in line with the 1991 Act of the UPOV Convention, but ratification of the UPOV Convention was still pending. A total of 145 fruit varieties had been granted protection, of which the main crops were apple, pear, strawberry, apricot and currant, with some ornamental fruit species.

20. The representative of the Community Plant Variety Office (CPVO) reported that around 2,500 applications had been received in 2003, of which 141 (6%) related to fruit species. Applications for fruit varieties had increased by around 9%. The CPVO expected to receive within the coming month its 20,000th application, in its nine years of existence. The TWF received information concerning the CPVO project to develop a centralized database on variety denominations, which was planned to be launched by the beginning of 2005, in the form of an Internet-based database available to contributors of data. The TWF noted that collaboration between the CPVO and UPOV in the development of their respective databases would be reported under the relevant agenda item and heard that the CPVO would collect data from the countries of the European Union, plus Switzerland and Norway, with UPOV collecting data from other members of the Union. Following the enlargement of the European Union, the first steps had been taken towards integrating the examination offices from the new member States into the DUS testing work. In particular, the CPVO had identified, and its Administrative Council had appointed in June 2004, the examination offices in the Czech Republic, Hungary, Latvia and Poland as possessing the necessary level of competence for DUS testing of certain fruit species. Ten protocols, based on UPOV Test Guidelines, had been introduced, these representing 80% of fruit applications.

21. The expert from South Africa reported that, during 2003, there were applications for 31 fruit varieties and PBRs were granted for 18 varieties. There had been an increasing number of applications for apple varieties arising from mutation. The instability of mutations was causing concern, with climatic variations in years causing large variations with regard to time of ripening, coloring, shape etc. In the breeding program of the Agricultural Research Council, the main breeding focus was on disease resistance in apples with scab and mildew being the most important disease for industry. There was also breeding for low chilling requirement to address the effects of global warming. With regard to pome fruit rootstocks, the breeding and selection was focused on resistance to woolly aphid, mildew, and Phytophthora. An amendment bill on the Genetically Modified Organisms Act was in preparation. Seven genetically modified (GM) varieties were approved for commercial use, being varieties of maize, soybean and cotton. During 2003, six GM varieties had been authorized for trial release. The South African fruit industry was preparing to conform to the EUREPGAP requirements. The South African Deciduous Fruit Producers' Trust was managing that process and was providing training workshops to producers and nurserymen.

22. The expert from New Zealand recalled that PBR had been offered for almost 30 years and that the number of applications had reached a plateau of approximately 150 to 180 applications per annum, of which 10% were for fruit varieties. Active breeding in New Zealand was taking place for apple, berry fruit, citrus, kiwifruit and peach. He reported that it was hoped that a new law incorporating the key elements of the 1991 Act of the UPOV Convention would be put to Parliament later in 2004.

23. The TWF heard from the expert from the United Kingdom that DUS testing was being conducted for PBR applications in the United Kingdom and on behalf of the CPVO and in relation to bilateral agreements. However, it heard that, in response to the relatively small number of applications and reduced breeding activity in the United Kingdom, a decision had been taken to discontinue DUS testing of fruit species. The existing applications concerning apple (6 varieties, including 2 mutation varieties), pear (1), gooseberry (2) and redcurrant (1), would be completed, but no further applications would be examined in the United Kingdom.

24. The expert from France explained that *Groupe d'étude et de contrôle des variétés et des semences* (GEVES) was an independent branch of INRA (Agronomic National Research Institute) which was charged with technical studies for registration, PBR, certification scheme, national seed control system and participation in the national genetic resources management. GEVES fruit activities were distributed across three DUS testing units, namely, Angers (apple, pear and rootstocks), Bordeaux (cherry, plum and nuts) and Avignon (apricot and peach). DUS testing of other species was conducted by Germany, Italy and Spain, on the basis of bilateral cooperation and in accordance with decisions of the CPVO. In France most DUS tests were for apple, apricot and peach. New projects were under way to improve the management of reference collections and to use DNA markers to characterize young material of varieties in the certification scheme for apple, apricot, cherry, peach, Prunus and nuts. The expert reported that Mr. Riba, formerly Scientific Director of Plant Products Research, INRA, had been appointed as the new President of GEVES. Mr. Marty, formerly Adviser at the General Directorate of INRA, had been appointed as the new Director of GEVES. Mr. Joël Guiard, Deputy Director of GEVES had been made responsible for development and international direction and Mrs. Françoise Blouet had been made responsible for the Variety Testing Service. Mrs. Laurence Feugey had taken on responsibility for apple, pear and rootstock DUS testing.

25. The expert from Australia informed the TWF that the number of applications for PBR had continued to increase to approximately 400 per annum for all crops. She recalled that Australia operated a breeder-based testing system and explained that the publication of variety descriptions was an integral part of this system. The system of publication had been changed from printed gazette to a Web-based publication and a project to allow electronic submission of variety descriptions by qualified persons was also underway. The TWF was informed that subscription to that Web-based publication, which was free of charge, was available to all. A system was being developed to allow breeders to develop descriptions for species for which test guidelines did not exist by collation of characteristics in existing descriptions. During 2003 and 2004, an intensive training program had been undertaken for qualified persons and it was noted that this had been greatly supported by the adoption of the General Introduction and TGP/7 "Development of Test Guidelines".

(b) *Reports on developments within UPOV*

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

Molecular Techniques

27. The Office of the Union introduced document TWF/35/2.

28. The TWF agreed with the recommendation of the Technical Committee, that the Annex to document TWF/35/2 would be a suitable summary of the current UPOV position. It agreed with the Technical Working Party for Agricultural Crops (TWA) and the Technical Working Party for Ornamental Plants and Forest Trees (TWO) that the situation might be further clarified by the addition of a summary paragraph and recommended the following version of the paragraph, as proposed by the TWO:

“3.4 Summary of current UPOV position

In conclusion, the current UPOV position is that, subject to fulfillment of the assumptions set out in relation to the proposals, approaches under Options 1(a) and 2 may be pursued. Approaches under option 3 have not, so far, been agreed.”

and recommended that the Administrative and Legal Committee (CAJ) be invited to consider this addition when reviewing the relevant document at its fiftieth session to be held in Geneva on October 18 and 19, 2004.

Project to Consider the Publication of Variety Descriptions

29. The TWF considered documents TWF/35/4 and TWF/35/4 Add., introduced by the Office. With regard to the summary table in document TWF/35/4, the expert from Germany noted that Germany had provided a list of its strawberry varieties.

30. The TWF received a presentation by Mrs. Alison S. Lean (United Kingdom) on the Model Study for Apple. Mrs. Lean explained that, so far, she had analyzed 17 apple varieties with descriptions provided by more than one authority. Some descriptions had been produced using different versions of the Test Guidelines and a set of characteristics had been developed which comprised those characteristics from the different versions of the Test Guidelines which had the same states of expression and example varieties, in order to compare as many descriptions as possible. It was noted that the only qualitative characteristic in the Test Guidelines (Tree: type) had produced consistent results across all authorities, however, the results for other characteristics had shown different degrees of variation for the same variety. The TWF agreed that the information presented at the meeting should be presented as a further addendum to document TWF/35/4. It was noted that not all authorities which had included varieties on their lists had provided descriptions for those varieties, and it was agreed that a further request, by Mrs. Lean and, if appropriate, the Office, should be made to try to obtain further descriptions. The TWF noted that the information was also to be sent to Mr. Guiard (France) for an analysis to be conducted using GAIA.

31. Mr. Baruch Bar-Tel (Israel), Coordinator of the Model Study for Strawberry, reported that he had received lists of varieties from more than 10 authorities and would select an appropriate sample on which to request descriptions. It was agreed that, if required, Mr. Richard Brand (France) would assist in the study.

TGP Documents

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

32. The TWF noted the recommendations of the TWA, the Technical Working Party on Automation and Computer Programs (TWC) and the TWV, as presented in document TWO/37/9-TWF/35/9, and the oral report of the recommendations of the thirty-seventh session of the TWO, made by the Office. The proposals of the TWF, set out below, were made in the context of those recommendations.

(i) *TGP/4 Draft 1: Management of Variety Collections*

33. Document TGP/4 Draft 1 was introduced by Ms. Beate Rücker (Germany).

34. The TWF agreed to recommend the following:

1.3.1.2 “taking” to be corrected to “taken”.

1.3.1.2 (i) first sentence to read “The list of protected varieties and any official, or other, register of varieties.”

1.3.1.4 to be amended in line with the text of the General Introduction.

1.3.3.1 to be elaborated to consider situations in which no material is available. In particular, to explain that a decision can still be made even where a particular variety of common knowledge is not available, whilst noting that a wrong decision could result in the nullification of protection. To explain that it is in the interest of breeders to cooperate in providing material and to explain the importance of providing material in the context of cooperation between authorities. To consider cost in relation to the effort required to obtain material of a variety of common knowledge. To be linked with section 1.2.

2.1 to consider the management of variety descriptions within the document.

2.1.2 to consider the management of variety descriptions in cases, for example, where the Test Guidelines are revised.

2.2 first sentence to be deleted

2.2.3 to review the paragraph to reflect the fact that material of varieties of common knowledge needs to exist in a collection, but not necessarily a collection held by an authority, to be able to be considered in the examination of distinctness. To review the use of the term “permanent variety collection” and to clarify whether this refers to living or non-living plant material.

35. It was agreed that further comments on document TGP/4 Draft 1 could be sent to the Office by the end of August 2004.

(ii) TGP/9 Draft 1 and TGP/9 Draft 1 Add.: Examining Distinctness

36. The TWF considered documents TGP/9 Draft 1 and TGP/9 Draft 1 Add., introduced by Ms. Beate Rücker (Germany), and a presentation on factors in the choice of methods for the assessment of distinctness, also made by Ms. Rücker, a copy of which is attached as Annex III, and made the following recommendations:

Section 1 to provide guidance and/or explanations of situations where a difference between varieties would not be sufficient for varieties to be considered to be clearly distinguishable i.e. distinct.

37. It was agreed that further comments on documents TGP/9 Draft 1 and TGP/9 Draft 1 Add. could be sent to the Office by the end of August, 2004.

(iii) TGP/10 Examining Uniformity

38. The TWF considered documents TGP/10.2 Draft 3 Rev., TGP/10.3.1 Draft 3 and TGP/10.3.2 Draft 3, presented by Ms. Beate Rücker (Germany), and made the following recommendations:

TGP/10.2 Draft 3 Rev.: Assessing Uniformity According to the Features of Propagation

1 (a) The TWF noted that the revised wording, proposed by the TWO, should have stated that “plants of vegetatively propagated varieties are supposed to be genetically identical ...”. However, the TWF proposed that the text be reworded in accordance with the text of the 1991 Act of the UPOV Convention.

TGP/10.3.1 Draft 3: Statistical Methods: COYU

The TWF had no comments.

TGP/10.3.2 Draft 3: Statistical Methods: Off-Types

Paragraph 54 The TWF supported, in particular, the comment of the TWO that a “sufficient” level of uniformity could be determined simply in relation to the number of off-types in a given sample size, provided the same uniformity standard was applied to all varieties.

39. It was agreed that further comments on documents TGP/10.2 Draft 3 Rev., TGP/10.3.1 Draft 3 and TGP/10.3.2 Draft 3, could be sent to the Office by the end of August 2004.

(b) *Other TGP Documents:*

(i) *TGP/13 Draft 2 Guidance for New Types and Species*

40. The TWF considered document TGP/13 Draft 2, introduced by Mr. Sergio Semon (CPVO), and made the following recommendations:

General to use the terms vegetatively propagated, seed-propagated etc., as used in the General Introduction, in a consistent way.

3.3.1 to be developed into Additional Standard Wording for use in Test Guidelines and for inclusion in the next revision of TGP/7 "Development of Test Guidelines". The TWF also agreed that the section should explain that it was important to indicate which Test Guidelines were used as the basis for variety descriptions, if necessary on a characteristic-by-characteristic level.

5. to be presented in alphabetic order.

(ii) *TGP14.2 Botanical Terms*

TGP/14.2.1 Draft 3: Botanical Terms: Plant Shapes

41. The TWF considered document TGP/14.2.1 Draft 3, presented by Mrs. Alison S. Lean (United Kingdom).

42. The TWF agreed that Mr. Alejandro Barrientos Priego (Mexico) and Mr. Kees van Ettehoven (Netherlands) should be included as interested experts for TGP/14.2.1 (Shape subgroup). The TWF concluded that, in order to make substantial progress in the drafting of TGP/14.2.1, there should be a meeting of the Shape subgroup prior to the thirty-sixth session of the TWF and agreed that this should take place in conjunction with the forty-first session of the Technical Committee, provisionally to be held in Geneva from April 4 to 6, 2005. On that basis, the Office was requested to contact Mrs. Elise Buitendag (South Africa), Coordinator for TGP/14, to seek her availability for a meeting on Monday, April 11, or Friday, April 1, 2005. The members of the Shape subgroup would then be informed, by the end of October 2004, if the meeting could be held. In preparation for the meeting of the Shape subgroup, the TWF made the following comments with regard to document TGP/14.2.1 Draft 3:

(a) *Presentation of shape characteristics in Test Guidelines*

The TWF agreed that, where there are several shapes to be described, only the basic shapes should be presented (e.g. ovate (1), circular (2), obovate (3) etc.) in a single characteristic and, in particular, shapes should not be combined with degrees of shape (e.g. narrow ovate (1); broad ovate (2); circular (3) etc.) in a single characteristic in such a situation. It was proposed that the variation within a shape (e.g. narrow ovate, medium ovate etc.) should be considered in a separate characteristic, such as ratio: length/width. It noted that this would require a revision of TGP/14.2.1 Draft 3, such that only a single illustration for each of the shapes indicated in the subtitles (e.g. elliptic, circular, oblate) would be provided - on the basis of the mid-point in the range for each shape. Furthermore, this would require a separate section to explain the

approach above and to provide some examples of how this would be used (e.g. Test Guidelines for Apple: TG/14/9(proj.3): characteristics 29 (amended below) and 26). It also recommended that all the shapes within a type (e.g. full plane shapes) should be presented on as few pages as possible and should be presented with all shapes having the same area.

With regard to the order of shapes, the TWF agreed that the primary order should be position of maximum width (going from proximal end to distal end) and the secondary order should be relative width (going from narrow to broad). The TWF developed the three following possible options for presenting irregular shapes:

- (i) all irregular shapes to be presented at the end of the range, after all regular shapes;
- (ii) all irregular shapes to be presented amongst the regular shapes, at the most appropriate point in the range; and
- (iii) to be decided on a case-by-case basis,

and agreed that this should be considered by the Shape subgroup and then reconsidered by the TWF, in a revised version of TGP/14.2.1, at its thirty-sixth session.

(b) Presentation of asymmetric / irregular shapes

The TWF agreed that, within each section (e.g. full plane shapes), a separate subsection should be introduced for asymmetric / irregular shapes, explaining with some examples, how these could be presented in Test Guidelines.

TGP/14.2.2 Draft 2: Botanical Terms: Hair Types

43. The TWF considered document TGP/14.2.3 Draft 2, presented by Mr. Chris Barnaby (New Zealand). It agreed that illustrations should be provided in the next version of the document. The TWF noted that there seemed to be agreement that “spine” related to a leaf or fruit, whereas “prickle” was related to stem. With regard to additional terms, the TWF agreed that a definition of “thorn” should be included, noting that this related to a modified organ. It further agreed that the document should be extended to cover, for example, tendrils.

TGP/14.2.3 Draft 2: Botanical Terms: Color

44. The TWF considered document TGP/14.2.3 Draft 2 and the report of the comments made by the TWO at its thirty-seventh session, as reported by the Office and Mr. Barnaby (New Zealand), Chairman of the TWO.

45. The TWF agreed with the TWO that an introduction explaining when the use of the RHS Colour Chart would, and would not be, appropriate should be provided. It noted that a set of examples of characteristics, illustrations and (color) photographs would be included to act as guidance on possible ways in which color characteristics would be developed. Interested experts from the TWF were invited to notify Mr. Kwakkenbos if they wished to participate in the drafting of this guidance.

46. The TWF noted that different versions of the RHS Colour Chart could produce different results, for example because of different classification of colors or because of fading of the chart, and agreed that Test Guidelines should include a recommendation that the version of

the RHS Colour Chart should be specified when it was used. It was proposed that this should be developed as Additional Standard Wording and included in the electronic Test Guidelines template, pending revision of TGP/7 “Development of Test Guidelines”.

(c) *TGP/7/1 Provisional: Use of TGP/7 in preparation of Test Guidelines*

47. The TWF received a presentation from the Office on the development of the electronic TG template and how this could be used in the drafting of Test Guidelines.

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

48. The TWF considered document TC/40/5 Add. and agreed with respect to Annex II that the subgroup of interested experts should be updated to include Mr. Barrientos Priego and Mr. van Ettehoven. It also agreed that the TWO should consider documents TGP/14.2.1: Plant shapes and TGP/14.2.2: Hair types at its session in 2005.

UPOV Information Databases

49. The TWF considered document TWF/35/3.

50. With regard to the checking of the UPOV codes presented in Annex III of document TWF/35/3, the TWF agreed that the checking of the codes should be undertaken by the relevant “using authorities” indicated in Annex III of that document. To aid the experts in the checking of these codes, the Office agreed to provide, by the end of August 2004, an Excel spreadsheet containing all UPOV codes in which the codes to be checked by each expert would be highlighted. The Office also agreed to clarify the type of checking which was required by the experts. The TWF agreed that comments on the code should be sent to the Office no later than October 8, 2004. It also agreed that the complete set of codes to be checked, included in a spreadsheet with all existing codes, would be sent to the expert from Mexico and any other interested expert wishing to conduct a wider check. The timetable for those experts would be as set out above.

Variety Denomination Classes

51. The TWF considered document TWF/35/5. It agreed with the view of the *Ad hoc* Working Group on Variety Denominations (WG-VD) that it was not necessary to create new classes for berries, as presented in proposal A in Annex III of document TWF/35/5. It agreed that it would, however, be appropriate to consider creating new classes by dividing the *Prunus* genus and proposed to consider specific proposals at its thirty-sixth session.

Criteria for Determining Off-Type Plants

52. The TWF considered document TWO/37/7-TWF/35/7, introduced by Mr. Chris Barnaby (New Zealand), Chairman of the TWO, who also reported on the discussions on the subject by the TWO at its thirty-seventh session.

53. The TWF agreed with the proposal of the TWO that Mr. Barnaby should produce a draft document seeking to provide guidance on the criteria for determining off-type plants. The TWF noted that, as a basis for the drafting, information would be provided by TWO experts from France (Lavandula), Germany (Regal Pelargonium), New Zealand (Hebe, Phormium), by the end of December 2004. Mr. Barnaby would also draw on the information provided in document TWO/37/7-TWF/35/7 and the information provided by the experts from the CPVO in document TWO/36/5, as well as other relevant UPOV documents. It was agreed that if a consensus could be reached on such guidance, the guidance should be incorporated as a section within document TGP/10. The TWF agreed with the conclusion of the TWO that it would not be appropriate to consider the development of different uniformity standards for variegated varieties. With respect to fruit crops for which information might be provided, it was agreed that apple would be of particular interest, and experts were invited to send information to Mr. Barnaby by the end of December 2004.

Definition of Maturity of Fruit

54. The TWF considered document TWF/35/8. It agreed with the proposed definition subject to an amendment to the order of criteria, such that the definition reads as follows:

“Eating maturity: the period when a fruit has reached optimum color, firmness, texture, aroma and flavor for consumption ...”

and replacement of “pipfruit” by “pomefruit”.

Discussion on Draft Test Guidelines

Apple (Revision) (document TG/14/9(proj.3))

55. The TWF discussed document TG/14/9(proj.3), as presented by Mrs. Alison S. Lean (United Kingdom), and agreed the following:

1. to read:
 - “1.1 These Test Guidelines apply to all varieties of *Malus* Mill., except for varieties used only as rootstock varieties (see TG/163/3) or only as ornamental varieties (see TG/192/1).”
 - “1.2 Any varieties which might be considered as rootstock or ornamental varieties but which might also be used for fruit production should be examined for DUS using these Test Guidelines in addition to the other Test Guidelines mentioned above.”
- 3.1 to add: “The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds.”
- 3.3.2 to be deleted
- 5.3 (h) to be replaced by Char. 58

- 6.5 MG, VG to be deleted
7. *Table of Characteristics*
- General MoE and VG, MG indications to be deleted.
- General to use the translations provided by the expert from France and those to be provided by the experts from Germany and Spain.
- Example varieties example variety to read “Schone van Boskoop” not “Schöne van Boskoop”
- Char. 4 state 1 to read “on spurs only”; state 3 to read “on long shoots only”.
- Char. 13 to add “.” after 13.
- Char. 15 to amend notes to 1, 2, 3, 4, 5.
- Char. 18 to add “:” after “Petiole”
- Char. 19 state 5 to read “medium red”
- Char. 24 to replace “length” with “height” and “long” in state 7, with “tall”
- Char. 25 to read “Fruit: maximum diameter”, with the states: small (3); medium (5); large (7), using the same example varieties.
- Char. 26 to replace “length” with “height” and “width” by “diameter”.
- Char. 27 to be deleted
- Char. 28 to be moved before Char. 24.
- Char. 29 “of whole fruit” to be deleted. To have the states: conic (1) (using the example varieties and illustration from state 8); ovoid (2) (from state 5); oblong (3) (from state 11); ellipsoid (4) (from state 1); globose (5) (from state 2); obloid (6) (from state 3); oblong waisted (7) (from state 13). New illustrations to be provided using the same area for each shape.
- Char. 36 to insert “,” after Gala in state 3 and after Lena in state 4.
- Char. 38 (+) to be deleted
- Char. 39 example varieties to be deleted and replaced by “see table in Chapter 8.2”
- Char. 41 to replace example variety “Royal Gala” with “Tenroy”.
- Chars. 42 “relative” to be deleted
to 44
- Char. 44 to have the notes 1, 2, 3.
- Char. 55 to read “Fruit: aperture of locules (in transverse section), with the states: closed or slightly open (1); moderately open (2); fully open (3). Example variety to read “Lampoon”.
- Char. 57 (*) to be deleted. States 2, 4, 6 and 8 to be deleted. State 5 to have the example varieties “Elstar” and “Gala” added. State 7 to have example variety “Spartan” deleted.

Char. 58 to read “Time of eating maturity”. (+) to be added with the following explanation:

“The period when a fruit has reached optimum color, firmness, texture, aroma and flavor for consumption. Depending on the plant species or type of fruit, this period can occur directly after removal from the tree (e.g. early pomefruit varieties, peach, cherry, citrus) or after a period of storage or conditioning (e.g. later pomefruit varieties, avocado, banana).”

State 3: example variety: “Gingergold” to be amended to “Mountain Cove”

State 7: example variety: “Spartan” to be deleted

State 9: example variety: “Braeburn” to be deleted

The following states to be added:

very early to early (2) example variety: White Transparent

early to medium (4) example varieties: Akane, James Grieve, Summerred

medium to late (6) example varieties: Ambrosia, Spartan, Šampion

late to very late (8) example varieties: Fuji

8.1 (c) “mature” to be replaced by “fully developed”.

Ad. 15 to add that the predominant type of incision should be observed. To amend notes to 1, 2, 3, 4, 5.

Ad. 29 leading expert to improve illustrations by fixing area or fixing height of relevant shapes.

Ad. 39 “Ad. 38 ...” to be deleted. Table to be completed with all varieties used in Char. 38. First column to be headed as “Fruit: hue of over color with any bloom removed (see Char. 38)”. To add “:” after intensity in columns 2 to 4.

Ad. 49-50, 51-52 to add “-” between notes on illustration e.g. “f-h” not “fh”.

8.3 entry for Cripp’s Pink to be deleted

entry for Delcorf to be deleted

other names for Red Jonaprince to read “Jonaprince; Wilton’s Jonaprince; Red Prince”

spelling of “Goldparmäne” to be amended

example variety to read “Schone van Boskoop” not “Schöne van Boskoop”

“Papirovska” to be added as other name for White Transparent.

“Mountain Cove” to be added with synonym “Gingergold”.

9. (Baldini): to read “melo”
(Khanizadeh...): to use initials for first name
(Morgan): to replace “and” with “;”. To replace “.” after Apples with “;”.
(Nilsson): to add space before Allmanna. To delete “.” after Stockholm.
(Sansavini): to add “;” after Simili and after monografica.
(Smith): to use initials for first name
(Toth): to use initials for first name
(Weiland): “TU Berlin” to be deleted and “.” replaced by “;”.
- TQ 5.9 Char. 57 to be replaced by Char. 58
- TQ 6 “Jonagored” and “(40 Fruit:” to be deleted.
- TQ 7.2 format to be updated.

Apricot (Revision) (document TG/70/4(proj.3))

56. The subgroup, chaired by Mr. József Harsanyi (Hungary), discussed document TG/14/9(proj.3) and agreed the following:

- Title page hyphen to be deleted from “UPOV Code”.
to read “prepared by experts from ...”
to add “;” after *Prunus armeniaca* L. in table of alternative names
to add “;” after Aprikose
to add “Chabacano” and “Damasco” as additional Spanish common names
- General all notes (e.g. “IT-FR...”) to be deleted.
example variety “Bulida” to be deleted (Chars. 10, 12, 15, 18, 20, 48, 50)
- 2.3 “propagate” to be replaced by “produce”
- 4.2.2 space before % to be deleted.
- Char. 2 new state 3 “upright to spreading” to be added, with example variety to be provided and other states to be renumbered accordingly.
- Char. 5 example variety “Canino” to be deleted and replaced in state 7 by “Harcot”.
- Char. 13 to be indicated as PQ and to have the notes 1, 2, 3,4.
- Char. 28 to be deleted
- Char. 32 state 7 to read “tall”.
- Char. 38 to read “Fruit: suture”, with the states: raised (1); slightly sunken (2); moderately sunken (3); deeply sunken (4) and to be indicated as PQ.
State 1 to have the example variety “Priboto”.
- Char. 39 (*) to be deleted

- Char. 41 “mucron” to be replaced by “micro”. (+) to be added.
- Char. 44 to read “Only varieties with pubescence absent: Fruit: glossiness of skin”. To have the example varieties: Moorpark (1) – to be checked; Harcot (2); Cluthagold, Sun Glo (3).
- Chars. 46, 47, 48 “of skin” to be deleted
- Char. 48 example varieties to be deleted.
- New Char. (after 48) to read “Fruit: distribution of coloration”, with the states: isolated flecks (spots) (1) (“Rouge du Roussillon”); solid flush (2) (“Bergeron”); covered all over with very small dots (3) (“Moniqui”). To be indicated as PQ.
- Char. 50 to have the notes 1, 2, 3.
- Char. 52 to read “Fruit: ratio: weight of fruit/ weight of stone”, with the states: small (3); medium (5); large (7). Example varieties for states 3 and 7 to be exchanged. “,” after “Bergeron” to be deleted.
- Char. 53 “,” after “Comandor” to be deleted.
- Char. 55 to read “Kernel: bitterness”.
- Ad. 2 illustrations to be improved.
- Ad. 3 to read “Observations should relate to the number of branches with the degree of branching being indicated by the density of lateral branches and shoots, excluding fruiting shoots.
- Ad. 30 to 36 “mucron” to be replaced by “micro”. To add the heading for char. 41.
- Ad. 30, 31 illustrations to be improved for states 2 and 3.
- TQ 1.1 “*Latin name*” to be replaced by “Botanical name”.
- TQ 7.2 format to be updated.

57. With regard to the comments made by the Italian and French scientists, the subgroup noted that answers to many of the comments which were not accepted would be addressed by more information on the UPOV requirements for the use of characteristics for DUS testing purposes.

Avocado (Revision) (document TG/97/4(proj.3))

58. The TWF discussed document TG/97/4(proj.3), as presented by Mr. Alejandro Barrientos Priego (Mexico), and agreed the following:

- 2.3 to delete the sentence after “8 graft sticks” and insert “The rootstock to be used is specified by the competent authority.”
- 3.1 (i) to be deleted
- 3.3.2, 3.3.3 to be deleted

7. *Table of Characteristics*

General	delete reference to MG, MS, VG, VS
New Char. (before 1)	“Tree: growth habit” with the states: upright (1) (example varieties: Bacon, Santana); spreading (2) (Hass, Fuerte); drooping (3) (Colín UV-33); weeping (4) (Wilg). To be indicated as PQ.
Char. 1	“of tip” to be deleted
Char. 2	to be deleted
Char. 3	to be deleted
New Char. (after 4)	“Shoot: length of internode”, with the states: short (3); medium (5); long (7). (+) to be added with explanation of which shoot to be observed and to be indicated as QN.
Char. 7	to read “Leaf blade: twisting”
Char. 8	to be deleted
Char. 16	to read “Leaf blade: conspicuousness of venation of upper surface”, with the states: inconspicuous or weak (1); medium (2); strong (3), to be indicated as QN.
New Char. (after 16)	to consider “Leaf blade: number of secondary veins”, with the states: few (3); medium (5); many (7), to be indicated as QN.
Char. 19	to have the states: absent (1); slight (2); strong (3).
New Char. (after 19)	“Petiole: length”, with the states: short (3); medium (5); long (7).
Char. 26	to read “Sepal: pubescence of inner surface”
Char. 27	to read “...pubescence of inner surface”
Char. 28	to be deleted
New Char.	to read “Mature fruit: length”, with the states: short (3); medium (5); long (7).”
New Char.	to read “Mature fruit: maximum diameter”, with the states: small (3); medium (5); large (7).”
Char. 29	(*) to be added
Char. 30	to replace “flat” with “truncated”/
Char. 31	to be retained
Char. 35	to read “...stylar end in longitudinal section”. State 1 to read “raised”.
Char. 36	to have the states: inconspicuous or weak (1); medium (2); strong (3), to be indicated as QN.
Char. 39	to be deleted
Char. 40	example variety “Traspón” to be deleted
Char. 41	to read “Mature fruit: surface”. Example variety “NB86” to be deleted
Char. 45	wording to be clarified

- Char. 50 “of skin” to be deleted. (*) to be added.
Char. 51 state 3 to read “moderately thin”, state 7 to read “moderately thick”.
Char. 52 (+) to be added with explanation that the characteristic should be examined when peeling the fruit.
Char. 53 (+) to be added with explanation
Char. 62 to be retained
Char. 62a to be retained
Ad. 31 illustration for state 9 to be improved
Ad. 45 illustration to be improved
Ad. 46 illustration for state 2 to show unwrinkled pedicel
TQ 7.2 formatting to be updated

Banana (Musa spp.) (Revision) (document TG/123/4(proj.2))

59. The subgroup, chaired by Mrs. Vera Lúcia dos Santos Machado, discussed document TG/123/4(proj.2) and agreed the following:

- Title page precise botanical names to be used in alternative names. To correct Spanish common names to “Bananera, Plátanera”.
- 1.1 to read “These Test Guidelines apply to all varieties of *Musa acuminata* Colla and intraspecific hybrids of *M. acuminata* Colla and *M. balbisiana* Colla (*Musaceae*).
- 1.2, 1.3 to be deleted
- 2.3, 3.5 to consider requesting 20 plants
- 3.1 to read
“3.1.1 The minimum duration of tests should normally be a single growing cycle.”
“3.1.2 The growing cycle is considered to be the period ranging from the beginning of active vegetative growth or flowering, continuing through active vegetative growth or flowering and fruit development and concluding with the harvesting of fruit.”
- 3.3.2 to read “All observations should be made on the first ratoon.”, subject to checking.
- 3.4 to be deleted
- 4.2.2 to be deleted
- 4.2.3 to read “For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 plants, 1 off-type is allowed.”, subject to checking.
- 5.3 to be deleted and replaced by characteristics presented in the normal way.

7. *Table of Characteristics*

General	to use “sprout” or “sucker” according to term used by IPGRI
Char. 1	to be indicated as QL
Char. 2	to be deleted, subject to checking
Char. 3	to read “Rhizome: number of sprouts”. (*) to be added and (+) to be added with explanation.
Char. 6	(+) to be added and illustration to be provided indicating if the shape should be viewed in cross-section.
Char. 7	to amend the following states as follows: light green (3); medium green (4); reddish green (6)
Char. 8	to consider splitting into the following characteristics: <ul style="list-style-type: none">(a) Pseudostem: size of dark spots(b) Pseudostem: intensity of coloration of dark spots(c) Pseudostem: type of distribution of dark spots
Char. 9	to read “Pseudostem: color on inner side at base of sheath”. “Rose” to be replaced by “pink”.
Char. 12	to check if the wording is taken from the IPGRI descriptor and, if not, to improve wording
Char. 13	to be deleted, subject to checking
Char. 14	to be deleted, subject to checking
Char. 15	to read “Leaf: color of midrib on dorsal side”. (+) to be added and illustration to be provided. “Rose” to be replaced by “pink”.
Char. 16	to be deleted, subject to checking that it is covered by Char. 17
Char. 18	to be deleted, subject to checking and, if retained, to refer to “glaucosity” rather than “waxiness”
Chars. 21 to 30	to be deleted, subject to checking
Char. 32	to be checked
Char. 33	to check if “pubescence” would be better than “pilosity”
Char. 34	(+) to be added and illustration to be provided. State 4 to be deleted.
Char. 36	(+) to be added, illustration to be provided and characteristic reworded
Char. 37	to be deleted, subject to checking
Char. 38	to read “Bunch: density”, with the states: sparse (3); medium (5); dense (7).
Char. 39	to read “Bunch: number of hands”
Char. 40	to be deleted, subject to checking
Char. 41	(+) to be added and illustration to be provided. To consider if the characteristic should be split.

- Char. 42 to be deleted, subject to checking, or (+) to be added and illustration to be provided.
- Char. 46 state 1 to read “straight or very weak”
- Char. 47 to be deleted, subject to checking
- Char. 49 to be deleted, subject to checking
- Char. 53 to read “Fruit: color of skin at eating ripeness”. State 2 to read “whitish yellow” and state 3 to read “light yellow”.
- New Char. to read “Fruit: color of skin at industrial harvest maturity” and to be added in the correct place in the Table of Characteristics
- Char. 54, 55 to be deleted, subject to checking
- Char. 56 to add “at eating maturity”. “Rose” to be replaced by “pink”.
- Char. 57 to be deleted, subject to checking
- Chars. 60 to 66 to be deleted
- New Section 8.3 to add table for synonyms of example varieties and groups to which they belong (e.g. AABB)
- TQ 10.1 to add boxes for hybrid groups
- TQ 7.2 format to be updated

Blackberry and Hybrid berries (Revision) (document TG/73/7(proj.2))

60. The subgroup, chaired by Mr. Erik Schulte (Germany), discussed document TG/73/7(proj.2) and agreed the following:

- Title page to check if the UPOV code is appropriate
to add loganberry and boysenberry as English common names
to add Test Guidelines for Raspberry (TG/43/7) as an associated document
- new 1.4 to read “For all blackberry varieties, their hybrids and closely related varieties, the berry does not detach completely from the plug, whereas for all raspberry varieties and their related types, the berry does completely detach from the plug. These Test Guidelines are suited for varieties which do not completely detach from the plug.”
- 2.2 to read “The material is to be supplied in the form of one-year-old plants propagated from stem or leaf cuttings”
- 3.3.2 to be deleted
- 4.2x to be deleted
- Char. 1 (+) to be added and illustration to be provided. To add example varieties: Arapaho (1) and Aurora (5).

- Char. 3 example variety: Himalaya (9) to be replaced by variety to be provided by the expert from New Zealand.
- Char. 4 to add example variety: Aurora (1).
- Char. 7 state 1 to read “only on upper third” and state 2 to read “only on upper half”.
- Char. 8 “shape in” to be deleted
- Chars. 9 to 13 to check if “prickle” should be replaced by “spine”.
- Char. 9 to check if spines are completely absent from example variety “Black Satin”. If yes, characteristic to be retained.
- Char. 10 If example variety “Black Satin” has some prickles, state 1 to be amended to read “absent or very few”.
- Char. 12 to be deleted
- Char. 13 to have the notes 1, 2, 3 and state 2 to read “outwards”.
- Char. 16 to be deleted
- Char. 17 (+) to be added and illustration to be provided. State 1 to read “absent or very few”. Example varieties: Lincoln (1); Marionberry, Silvan, Tayberry (3) to be added.
- Char. 18 to be deleted
- Char. 22 to have the states: u-shaped (1); v-shaped (2).
- Char. 23 to read “Terminal leaflet: undulation of margin” and to be indicated as QN. To have the states: absent or very weak (1); weak (2); strong (3). Example varieties to be provided.
- Char. 24 example variety “Jumbo” to be moved to state 2.
- New Char. (after 25) to read “Petiole: presence of stipules”, with the states: absent (1); present (9). to check if example variety for state 1 should be “Silvan”.
- Char. 27 to read “Leaf: form” and to be indicated as PQ. Example variety “Marionberry” to be replaced by “Karaka Black”.
- Char. 30 to be checked if true QL characteristic.
- Char. 32 to check if “Dyke” (state 1), “Silvan” (state 9) and “Marionberry” (state 9) would be suitable example varieties.
- Char. 33 example varieties “Dirksen Thornless” and “Theodor Reimers” to be added for state 3.
- Char. 34 to have the states: absent or very rarely present (1); rarely present (2); usually present (3).
- Char. 35 spelling of “fruiting” to be corrected.
- Char. 36 to be deleted
- New Char. to read “Fruit: length” and example varieties to be provided.
- New Char. to read “Fruit: width” and example varieties to be provided.

- Char. 37 example variety “Karak Black” to be moved to state 9 and “Tayberry” to be added for state 7.
- Char. 38 example variety “Siskiyou” to be added for state 1.
- Char. 39 state 6: oblong to be added and to be checked
- Char. 40 to be moved before Char. 37. Example variety “Karak Black” to be added for state 9
- Char. 41 to have the states: red (1) (Sunberry); reddish purple (2) (Tayberry); reddish black (3) (Alfred); bluish black (4) (Himalaya); black (5) (Black Satin). Expert from New Zealand to provide example varieties for state 1 (loganberry types) and state 2 (boysenberry types).
- Char. 42 example variety “Ranui” to be added for state 1.
- Char. 44 example varieties to be provided by the expert from New Zealand.
- Char. 45 to read “Flowering: type of bearing”. State 2 to be amended to read “on previous year’s cane only” and order of states to be reversed. To be moved before Char. 43.
- Char. 46 example variety “Ranui” to be added for state 1. Example varieties “Wilson’s Early”, “Tayberry” and “Philadelphia” to be checked for state 1.
- 8.1 (a) to delete “All” and insert “which” before “should”.
(d)
- Ad. 13 to be improved
- Ad. 39 to be modified, subject to changes to Char. 39.
9. (Bordeianu): “Bd.” to be replaced by “Vol.”.
(Jennings): to add the publication place
- TQ 10.1 separate box to be provided for hybrids.
- TQ 10.1.1 “Botanical name” to be presented in normal font.
- TQ 5 to be updated in accordance with changes to the Table of Characteristics.
- TQ 6 to have the example: Fruit: size of drupelet / small / medium.
- TQ 7 format to be updated

Cherry (Revision) (documents TG/CHERRY-SO(proj.1) and TG/CHERRY-SW(proj.1))

61. The subgroup, chaired by Mr. József Harsanyi (Hungary) discussed document TG/CHERRY-SO(proj.1) and agreed the following:

- Title page to indicate that the Test Guidelines cover also hybrids of *Prunus cerasus* L. and *P. avium* (common name: Duke cherry)
1. “sensu lato” to be deleted
7. *Table of Characteristics*
- General spelling of example variety “Tarina” to be checked.

- Char. 1 to read “Shoot: type” and to be moved after Char. 7.
- Char. 3 to have the states: upright (1); semi upright (2); spreading (3); drooping (4).
- Char. 4 “degree of” to be deleted
- Char. 5 to read “Tree: bud distribution”, with the states: along entire branch (1); only on the middle and distal part of branch (2); only on distal part of branch (3).
- Char. 7 “hairiness” to be replaced by “pubescence”.
- Char. 9 to be deleted
- Char. 13 to read “Leaf blade: intensity of green color of upper side”
- Char. 17 to check whether ratio should be inverted
- Char. 18 to read “Leaf: nectaries”
- Char. 19 to read “Leaf: color of nectaries”
- Char. 22 to read “Stipule: extension”, with the states: absent or weak (1); medium (2); strong (3), but to be checked.
- Char. 23 to read “Stipule attitude”, with the states: leaning away from shoot (1); adpressed to shoot (2); leaning across shoot (3).
- Char. 25 to have the states: circular (1); medium obovate (2); broad obovate (3).
- Char. 26 to read “Flower: arrangement of petals”, with the states: free (1); intermediate (2); overlapping (3). To be moved before Char. 25.
- Char. 27 to read “Flower: arrangement”, with the states: solitary (1); double (2); in clusters (3); irregular (4). (+) to be added with explanation and illustration.
- Char. 30 (+) to be added and illustration to be provided.
- Char. 33 (*) to be added
- Char. 37 State 1 to be checked. State 6 “dark red” to be moved before state 5. To consider adding new state 7 “blackish” with example varieties: “Dropia” and “North Star”.
- Char. 39 state 2 to read “whitish yellow”
- Char. 42 state 3 to read “weak”
- Char. 46 to read “Fruit: ratio: weight of fruit / weight of stone” and states to be reversed
- Ad. 3 illustration for state 1 to be retained for new state 1: upright. Illustration for state 2 to be deleted and other illustrations renumbered.
- 8.3 to check if “Pándy” is the correct denomination to be used in the Table of Characteristics, or if it is a synonym for “Crişane”.

62. The subgroup did not discuss document TG/CHERRY-SW(proj.1).

Crataegus spp. (Hawthorn) (document TG/HAWTH(proj.1))

63. The subgroup, chaired by Mr. Alejandro Barrientos Priego (Mexico) discussed document TG/73/7(proj.2) and agreed the following:

- | | |
|--------------------|---|
| Title page | Spanish common names “Espinera”, “Marjoleto”, “Marzoleto” to be checked by the Office |
| 2.3 | after “8 graft sticks” to read “The rootstock to be used is specified by the competent authority.” |
| 3.3.2,
3.3.3 | to be deleted |
| 5.3 | to be reviewed |
| | <i>7. Table of Characteristics</i> |
| General | indication of MG, VG etc to be deleted |
| Char. 1 | to read “Tree: form”. State 2 to read “globose” and states 3 and 5 to be reworded or deleted. |
| Char. 3 | to have the states: small (3); medium (5); large (7). |
| Char. 4 | to read “Tree...”, to be indicated as QN and to have the states: absent or very weak (1); weak (2); strong (3) |
| Char. 5 | to be indicated as QN, with the states: sparse (3); medium (5); dense (7). |
| Chars. 6 to
8 | “Stem” to be replaced by “Trunk”. |
| Char. 9 | to read “Tree: habit”, to include the state “candelabrous” and to consider additional state weeping (5). To be moved before Char. 1. |
| Char. 10 | to be deleted |
| Chars. 11
to 15 | “Vegetative” to be deleted |
| Char. 15 | to read “Shoot: length of internode”, with the states: short (3); medium (5); long (7). |
| Char. 16 | to be deleted |
| Chars. 17
to 20 | to read “Leaf blade: ...” |
| Char. 20 | colors to be checked |
| Char. 21 | to read “Petiole: attitude in relation to shoot” and to be moved after Char. 27 |
| Char. 22 | to read “Petiole: length” and to be moved after Char. 27 |
| Char. 24 | to read “Leaf: surface” |
| Char. 25 | to read “Leaf blade: form”, with the states: flat (1); curved (2); twisted (3) and to be indicated as PQ. To be moved after Char. 20. |

- Char. 26 to read “Leaf blade: margin”, with the states: entire (1); crenate (2); bi-crenate (3); serrate (4); bi-serrate (5) and to be indicated as PQ. To be moved after Char. 20.
- Char. 27 to read “Leaf blade: lobes”. (+) to be added with explanation of which leaves to observe.
- New Char. (after 27) to read “Leaf blade: depth of lobes”, with the states: shallow (3); medium (5); deep (7). Experts from Germany and Netherlands to provide example varieties.
- Char. 28 to read “Flower: height”, with the states: short (3); medium (5); tall (7)
- Char. 30 to have the states: white (1); whitish pink (2); medium pink (3); dark pink (4); red (5) and example varieties to be provided.
- Char. 31 order of states to be reversed
- Char. 32 state 2 to read “intermediate”. To be indicated as PQ.
- Char. 33 “presence of” to be deleted
- Char. 35 to be checked
- Char. 36 to have the states: circular (1); elliptic (2); narrow cordate (3); medium cordate (4). (+) to be added and illustration to be provided. To be indicated as PQ.
- Char. 37 to have the states: brevistyle (1); equistyle (2); longistyle (3), if the terms are appropriate.
- Char. 38 to read “Flower: depth of calyx cavity”
- Char. 39 to read “Flower: diameter of calyx”, with the states: small (3); medium (5); large (7)
- Char. 41 to consider using the notes 1, 2, 3 or change to 3, 5, 7
- New Char. (after 41) to read “Flower: number of styles”, with the states: one (1); two or three (2); more than three (3). Example varieties to be provided.
- Char. 42 “with” to be replaced by “and”. State 5 to read “medium green”. Order of states to be checked.
- Char. 43 to be reviewed in line with discussions on document TGP/14.2.1 (see above)

64. The subgroup did not have discussions on the draft Test Guidelines beyond characteristic 43.

Hop (documents TG/HOP(proj.1) and TWF/35/10)

65. The subgroup, chaired by Ms. Beate Rucker (Germany), discussed documents TG/HOP(proj.1) and TWF/35/10 and agreed the following with regard to document TG/HOP(proj.1), as amended by document TWF/35/10:

- Char. 6 (+) to be added with explanation
- Char. 8 (+) to be added with explanation of “head”. Independence from Chars. 7 and 8 to be checked.
- Char. 17 to consider the following wording of states: narrow ovate (2); medium ovate (3); broad ovate (4).
- Char. 18 to check if example variety “Wye Target” is closed or slightly open. If example variety “Wye Target” is slightly open, to amend state 1 to “closed to slightly open” and state 2 to “moderately open”.
- Char. 20 to read “Bract: ratio: width/length”, with the states: small (3); medium (5); large (7).
- Char. 21 to read “Bract: expression of tip”

Mango (Revision) (document TG/112/4(proj.3))

66. The subgroup, chaired by Mr. Hennie Venter (South Africa), discussed document TG/112/4(proj.3) and agreed the following:

- Title page hyphen to be deleted from “UPOV code”
“Latin” to be replaced by “Botanical name”
- 5.3 to be reviewed in conjunction with the Technical Questionnaire characteristics
7. *Table of Characteristics*
- General all characteristics to be renumbered
- General leading expert to agree with experts from Brazil, Mexico and Israel, for which characteristics those countries will provide a set of example varieties.
- Char. 2 to check if state 2 should read “medium green” and state 3 should read “light brownish green”. Note (a) to be deleted and replaced with (+).
- Char. 15 to be deleted or to have the states: absent or slightly concave (1); moderately concave (2); strongly concave (3).
- Char. 23 to be moved after Char. 24.
- Char. 29 to be deleted
- New Char. (after 27) to read “Inflorescence: length excluding peduncle”, with the states: short (3); medium (5); long (7). (+) to be added and illustration to be provided.
- New Char. (after 27) to read “Peduncle: length”, with the states: short (3); medium (5); long (7). (+) to be added and illustration to be provided.
- Char. 30 to read “Inflorescence: diameter”, with the states: small (3); medium (5); large (7). (+) to be added and illustration to be provided.
- Char. 31 “width” to be replaced by “diameter”. (+) to be added and illustration to be provided.

- Char. 32 (+) to be added and illustration to be provided.
- Char. 41 to be deleted
- Char. 42 to be deleted
- Chars. 43 to 69 to be retained unchanged, i.e. “mature” not to be deleted
- Char. 49 (+) to be added with explanation of “bloom”
- Char. 51 (+) to be added with explanation that e.g. characteristic relates to contrast in color.
- Char. 53 to check if correlated with Chars. 51 and 52.
- Chars. 54, 55 to consider combining into a single characteristic.
- Chars. 56, 57 to consider combining into a single characteristic.
- Char. 60 to consider deleting in conjunction of changes to Chars. 61 and 62 below.
- Char. 61 state 1 to read “absent or very short”. (+) to be added and illustration to be provided.
- Char. 62 to consider changing state 1 to read “absent or very shallow”. (+) to be added and illustration to be provided.
- Chars. 63, 66 to check if the word “excrescence” could be instead of “lumpiness” and “bulge”
- Char. 66 to have the states: absent or weak (1); medium (2); strong (3).
- Chars. 73, 74 to be combined into a single characteristic to read “Ripe fruit: speckling of skin”, with the states: absent or very weak (1); weak (3); medium (5); strong (7). (+) to be added with explanation of where to observe on the fruit. To check if very strong speckling could become an overcolor and be confused between state 1 (absent) or state 9 (very strong).
- Char. 81 to read “Ripe fruit: amount of fiber attached to stone”, but to be checked. (+) to be added with explanation.
- Char. 82 to read “Ripe fruit: amount of flesh attached to skin”, but to be checked. (+) to be added with explanation
- Char. 83 (+) to be added with explanation of what is meant by “turpentine flavor”
- Char. 90 to be deleted
- 8.1 general to read “Observations ... which should be made...”
- 8.1 (a) to become Ad. 2.
- 8.1 (h) to be separated into explanations ((+) and Ad.) for individual characteristics where appropriate. To include “ZA 2004” comment.
- Ad. 12 to be completed
9. to include reference to IPGRI descriptors and additional literature to be provided by experts from TFNet.

Pecan nut (document TG/PECAN(proj.2))

67. The subgroup, chaired by Mrs. Guadalupe Montes (Argentina), discussed document TG/PECAN(proj.2) and agreed the following:

- 2.2 to read “The material is to be supplied in the form of dormant graftwood (15 cm long and 1-1.5 of diameter with 3 groups of buds) to be sent at grafting time.
 - 2.3 “8 grafted plants or,” to be deleted.
 - 3.3.1, to be deleted
 - 3.3.2
 - 3.4.1 to read “Each test should be designed to result in a total of at least 5 trees.
 - 5.3 to have characteristics: 15, 19, 20, 21, 43
 - 6.4 “[The state of expression of the example varieties ...wild rootstock.]” to be deleted
 - 6.5 “(a)-(x) ...” to be deleted
7. *Table of Characteristics*
- General VG etc. to be deleted
 - New Char. to read “Leaf: length of terminal leaflet”, with the states: short (3);
(i) medium (5); long (7). To be indicated as QN.
(after 6)
 - New Char. to read “Leaf: width of terminal leaflet”, with the states: narrow (3);
(ii) medium (5); broad (7). To be indicated as QN.
(after 6)
 - Char. 9 to read “Leaf: presence of petiolule of lateral leaflet”.
 - Char. 10 to read “Leaf: asymmetry of lateral leaflet”
 - Char. 11 to read “Only varieties with asymmetric leaflets: position of longer side of leaflets”, with the states: towards apex (1); towards base (2).
 - Char. 12 to read “Leaf: curvature of longitudinal axis of lateral leaflet”
 - Char. 13 to read “Female Inflorescence: predominant number of flowers”, with the states: three (1); four (2); five (3); six (4); seven (5). To be indicated as PQ.
 - Char. 14 state 2 to read “bifurcate”.
 - Char. 15 state 1 to read “greenish”. (*) to be added.
 - Char. 17 (+) to be added
 - Char. 20 to read “Nut: width in ventral view”. To be checked.
 - Char. 21 to read “Nut: width in lateral view”. To be checked.
 - Char. 22 to read “Nut: shape in ventral view”. To be checked.
 - Char. 23 to read “Nut: shape in lateral view”. To be checked.
 - Char. 24 state 1 to read “elliptic”; state 3 to read “oblate”.

- Char. 25 to have the states: rounded (1); obtuse (2); acute (3); acuminate (4); apiculate (5).
- Char. 26 to have the states: rounded (1); acuminate (3); apiculate (4); caudate (5).
- Char. 27 to read “Nut: intensity of brown color of shell”, with the states: light (3); medium (5); dark (7).
- Char. 28 “relative” to be deleted
- Char. 29 to have the states: thin (1); medium (2); thick (3). (+) to be added. To be indicated as PQ.
- Char. 30 to be deleted
- Char. 31 to have the states: thin (1); medium (2); thick (3). To check if correlated with Char. 29.
- Char. 32 to read “Nut: ratio: weight of nut / weight of kernel”, with the states: small (3); medium (5); large (7).
- Char. 34 to read “Kernel: intensity of brown ground color”, with the states: light (3); medium (5); dark (7).
- Char. 37 (+) to be added
- Char. 38 to have the states: absent (1); present (9).
- Char. 39 (+) to be added
- Char. 41 to read “Time of anther dehiscence”
- Char. 42 to read “Duration of pollen shed”
- Char. 43 to replace “liberation” with “shed”.
- Char. 44 (+) to be added.
- Chapter 8 to be completed.
- Chapter 9 to be completed
- TQ 5 to be completed

Pineapple (Ananas comosus (L.) Merr.) (document TG/PINEAP(proj.1))

68. The subgroup, chaired by Mr. Richard Brand (France), discussed document TG/PINEAP(proj.1) and agreed the following:

1. to amend to refer to fruit “production”, rather than “consumption” and to consider extending the Test Guidelines to cover ornamental varieties.
- 2.2 to add reference to the type of sucker to be supplied (see section 2.7).
- 2.3 to check if lower number of suckers would be appropriate.
- 2.5, 2.6 to be deleted
- 3.1 to read “The minimum duration of tests should normally be two independent growing cycles.”

- 3.3.2, 3.4.3 to check if the plants can be grown without the use of a growth regulator for floral induction
- 3.4.2 to be deleted
- 3.5 to consider if 20 plants would be appropriate
- 4.2.2 to consider if 20 plants would be appropriate
- 5.3 second subparagraph (“It is recommended ...”) to be deleted.

7. *Table of Characteristics*

- General to check if example variety “S. Cayenne” is the same as “Cayenne”.
- Char. 1 (+) to be added. To have the states: upright (1); semi upright (2); spreading (3).
- Char. 2 to check if the characteristic relates to the number of leaves (acceptable) or rate of production of leaves (not acceptable).
- Chars. 3, 4 to clarify what is meant by “reference leaf”. To check if example variety “Perola” should be state 5 or state 7.
- Char. 4 to be presented as: ratio: length/width.
- Char. 5 to check if this should be replaced by thickness of leaf, or deleted.
- Chars. 6 to 9 “face” to be replaced by “side”.
- Char. 6 state 1 to read “light green”, state 2 to read “medium green” and to check if state 6 “purple green” should be added. Also, to check if the characteristic should be split into two characteristics: (a) intensity of green color; and (b) presence of anthocyanin.
- Char. 8 to have the states: on margins (1); in grooves (2). (+) to be added and illustration to be provided.
- Char. 9 (+) to be deleted. To be checked in relation to Char. 6.
- Char. 10 to read “Leaf: anthocyanin coloration”, with the states: weak (3); medium (5); strong (7); very strong (9).
- Char. 11 to read “Leaf: transversal distribution of anthocyanin coloration”, with the states: predominantly on margins (1); evenly on margins and in grooves (2); predominantly in grooves (3).
- Char. 12 to read “Leaf: longitudinal distribution of anthocyanin coloration”, with the states: predominantly towards the base (1); along the whole leaf (2); predominantly towards the apex (3).
- Chars. 13, 15, 18 explanation, illustrations and information from the national guidelines of Japan and the IPGRI descriptor to be obtained and characteristics to be clarified on that basis. (+) to be added and illustrations to be provided in the next draft.
- Char. 14 to read “Leaf: piping of edge”, with the states: absent (1); present (9).
- Char. 16 to read “Spine: color in relation to leaf blade”, with the states: same (1); different (2).
- Char. 17 to read “Spine: size”

- Char. 19 to read “Peduncle bract: color of ventral side”, with the states: green (1); light pink (2); medium pink (3); dark pink (4); medium red (5); dark red (6).
- Char. 20 (+) to be added with explanation that the bract should be taken from the middle of the inflorescence.
- Char. 21 to check if state 1 can be described as “acropetal” and to find a suitable wording for state 2.
- Char. 22 to be checked
- Char. 23 to read “Petal: color of apex”, with the states: whitish (1); light purple (2); medium purple (3); red purple (4); blue purple (5).
- Char. 24 to read “Petal: size of white area” and (+) to explain that this should be observed without removing the flower from the fruit.
- Char. 25 to read “Petal: length”, with the states: short (3); medium (5); long (7). Br 12 and Br 13 to be checked and, if accepted, (+)’s to be added and illustrations to be provided.
- Char. 26 to read “Sepal: length”, with the states: short (3); medium (5); long (7). BR 11 to read “Sepal: predominant color”.
- Char. 27 to read “Flower: stylar type”, with the states: brevistyle (1); equistyle (2); longistyle (3), if the terms are appropriate.
- Char. 28 to be deleted, subject to checking.
- Char. 29 to read “Stamen: length”
- Char. 30 to read “Style: length”
- Char. 31 to read “Fruit: predominant color (fully developed immature fruit)”. State 1 to read “grey green”; state 6 to read “medium red”; state 7 to read “brown purple”; and state 8 to read “brown purple”, subject to checking

69. The subgroup did not examine the remainder of the document.

Recommendations on draft Test Guidelines

70. The TWF agreed that the draft Test Guidelines below would be sent to the TC for adoption at its forty-first session, to be held in Geneva in April 2005, on the basis of the following documents with the amendments presented in this document:

Apple (Revision)	TG/14/9(proj.3)
Apricot (Revision)	TG/70/4(proj.3)

71. The TWF noted that the OIV was in the process of revising its descriptor for grapevine and the TWF agreed that it should revise its Test Guidelines for Grapevine in light of this development. The TWF then decided to discuss the following draft Test Guidelines at its thirty-sixth session:

Avocado (Revision)
Banana (*Musa* spp) (Revision)
Black Currant (Revision)
Blackberry and Hybrid berries
Blueberry (Revision)
Cactus Pear (*Opuntia* spp.) (Partial revision)
Coffee
Fig (*Ficus carica*)
Grapevine (*Vitis* L.) (Revision)
Hawthorn (*Crataegus* spp.)
Hop
Mango (Revision)
Papaya (*Carica papaya* L.)
Passion Fruit (Fruit species)
Pecan nut
Pineapple (*Ananas comosus*)
Sea Buckthorn (*Hippophaë* L.)
Sour Cherry (Revision)
Sweet Cherry (Revision)

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

Pistachio (*Pistacia vera* L.)
Pomegranate (*Punica granatum* L.)

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

74. The TWF heard from the expert from the Netherlands that the authorities in Turkey wished to obtain Test Guidelines for pistachio. In the absence of Test Guidelines, it was proposed to the expert from the Netherlands that he inform the authorities in Turkey that, according to document TC/40/4 "List of Species", Israel, Spain and South Africa had experience in DUS testing of pistachio and those authorities could be approached for further information. The expert from Israel confirmed that he could supply information concerning suitable characteristics.

75. The TWF considered document TWF/35/6. With regard to Annex II of document TWF/35/6, the TWF agreed that, Mr. Schulte (Germany), as Chairman of the TWF, should act as the leading expert for the TWF concerning any development of Test Guidelines for Durian (*Durio zibethinus* L.) and should report on developments at the Sixth Asian Regional Technical Meeting at the thirty-sixth session of the TWF. With regard to cooperation with IPGRI in the development of descriptors for the crops and species listed in Annex III of document TWF/35/6, the TWF agreed that the Office and the Chairman of the TWF should decide on the appropriate expert to contribute to the IPGRI drafting work.

Date and Place of the Next Session

76. At the invitation of the expert from Japan, the TWF agreed to hold its thirty-sixth session in Japan from September 5 to 9, 2005.

77. The TWF noted that an official invitation had been received from Brazil to host the TWF in 2006.

Chairmanship

78. The TWF agreed to recommend to the TC that it propose to the Council that it elect Mr. Alejandro Barrientos Priego (Mexico) as the next chairperson of the TWF.

Future Program

79. The TWF proposed to discuss the following items at its thirty-sixth session:

1. Opening of the session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection.
 - (a) Reports from members and observers (oral reports by the participants).
 - (b) Reports on developments within UPOV (oral report by the Office of the Union).
4. Molecular techniques
5. TGP documents
6. UPOV information databases
7. Project to consider the publication of variety descriptions
8. Criteria for determining off-type plants
9. Variety denomination classes
10. Discussion on draft Test Guidelines (Subgroups)
11. Recommendations on draft Test Guidelines
12. Date and place of the next session
13. Future program
14. Report on the conclusions of the session (if time permits)
15. Closing of the session

Technical Visit

80. On the afternoon of Tuesday, July 20, 2004, the TWF was welcomed by Mr. Johann Habben, Head of Department for DUS Testing, Bundessortenamt, and received a

guided tour of the Marquardt testing station of the Bundessortenamt. On the afternoon of Thursday, July 22, the TWF visited a fruit farm in Werder / Havel, where the produce included apple, pear, strawberry and sweet cherry, followed by a tour to see plantations of seabuckthorn and a visit to a market for processed fruit, before ending its series of visits at Wachtelberg, a specialist vineyard, being the farthest north in Germany, where an extended collection of international and local varieties was inspected.

81. *The TWF adopted this report at the close of the session.*

[Annex I follows]

ANNEX I

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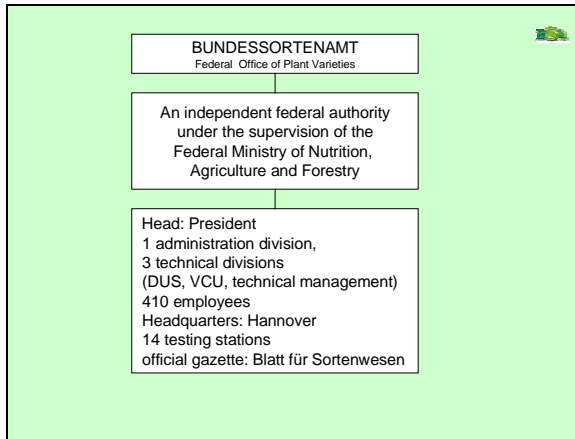
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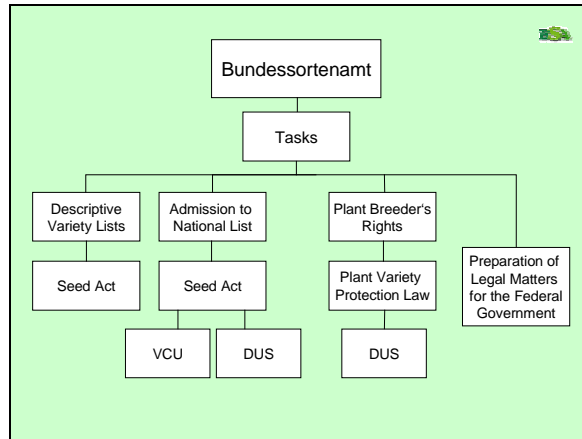
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ANNEX II

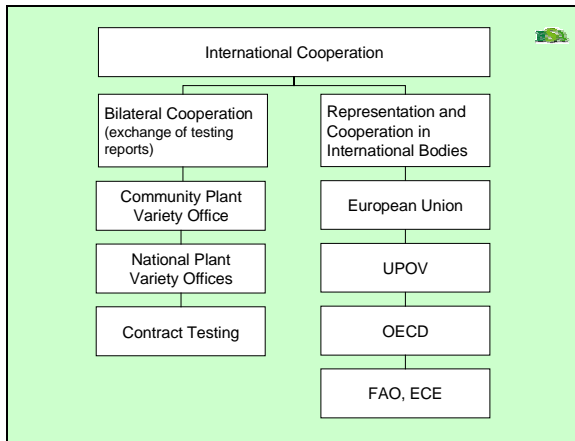
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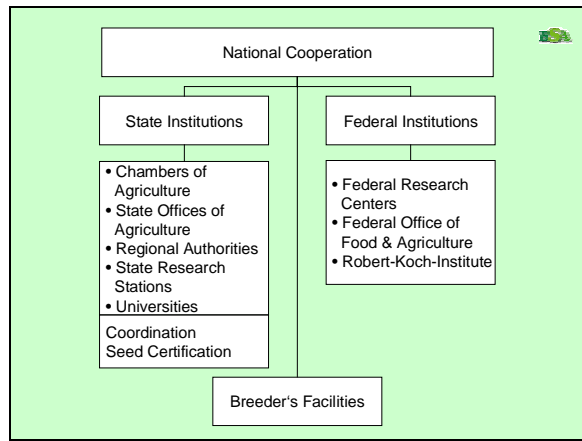
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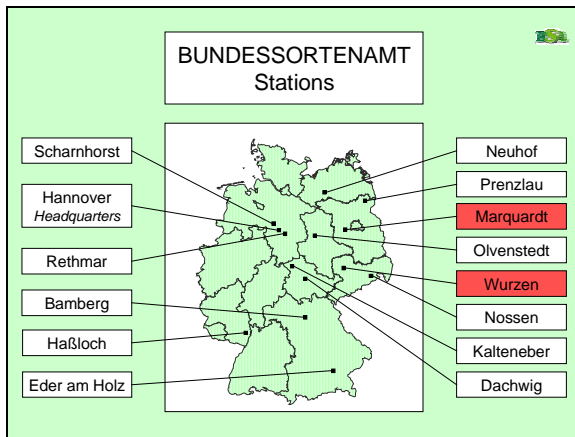
Slide 3



Slide 4



Slide 5




Slide 6

Testing station Marquardt

Species	total varieties under test	varieties currently under test			protected varieties
		national	CPVD	others	
<i>Prunus rostrata</i>	35	2	2	0	10
Plum	34	0	0	1	0
Sweet Cherry	17	0	0	0	0
Sour Cherry	13	3	3	0	0
Blauberry	13	0	0	2	2
<i>Sambucus</i> (<i>Hippophae</i> L.)	0	3	0	3	1
Karstul	3	0	0	0	1
<i>Blackthorn</i> (<i>Prunus spinosa</i> L.)	2	0	0	0	2
Chokeberry (<i>Prunella</i> Medik.)	1	0	0	0	1
Fig	1	0	0	0	1
Passiflora	1	0	0	0	1

Slide 7



Species	total varieties under test	varieties currently under test			pretested varieties
		national	CPVD	others	
Strawberries	359	3	18	29	32
Apple	215	19	18	2	64
Raspberry	65	0	12	2	0
Black Currant	42	2	8	5	7
Red Currant	22	2	1	2	1
Gooseberry	21	0	1	0	5
Pear	19	2	8	0	5
Blackberry	13	1	1	0	3
Apple rootstocks	11	0	8	0	3
Pear rootstocks	6	1	2	0	4
Jostaberry	4	0	8	0	3
Pineapple	11	0	8	0	1

Slide 8

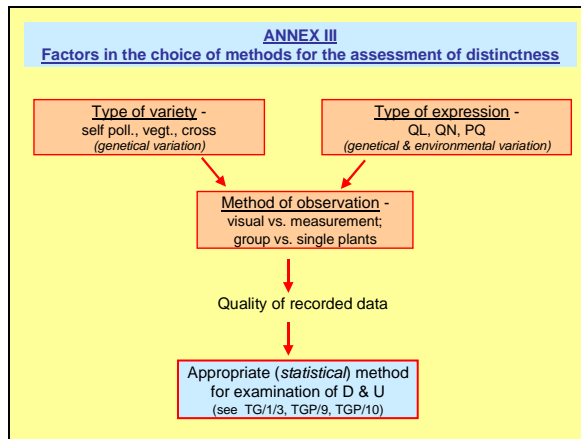


Thank you for your attention

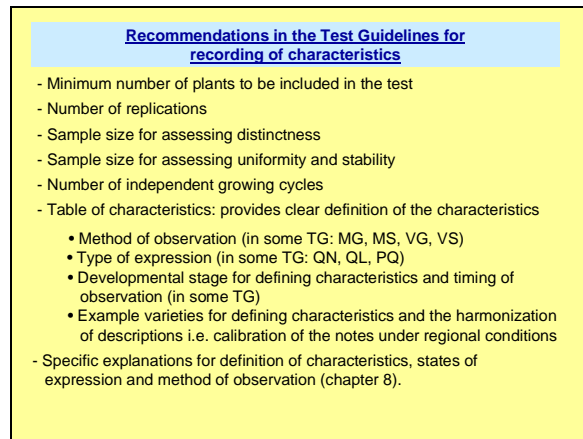
[Annex III follows]

ANNEX III

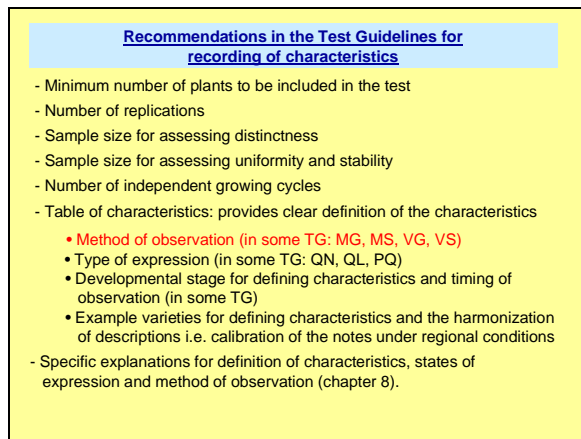
Slide 1



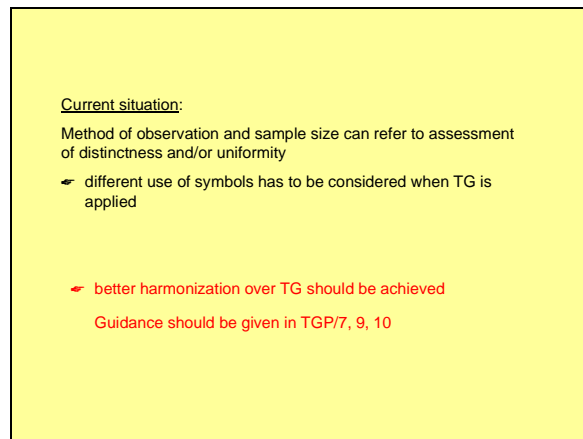
Slide 2



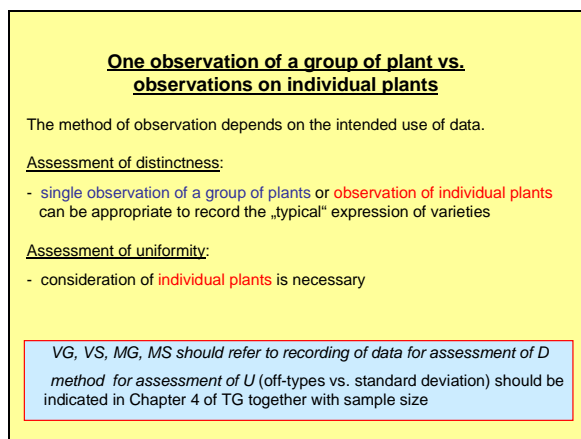
Slide 3



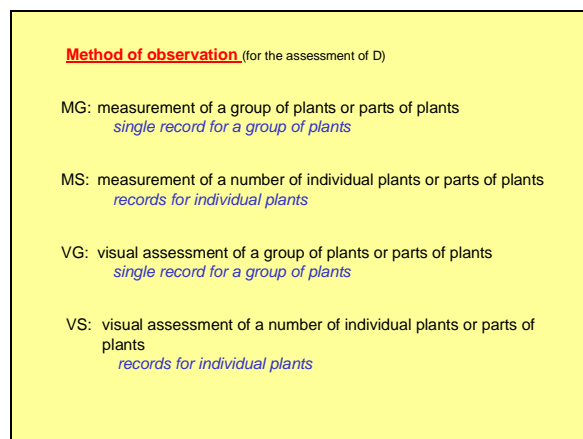
Slide 4



Slide 5



Slide 6



TWF/35/11

ANNEX IV

LIST OF LEADING EXPERTS

DRAFT TEST GUIDELINES TO BE SUBMITTED
TO THE TECHNICAL COMMITTEE IN 2005

All requested information to be submitted to the Office of the Union
before September 3, 2004

Test Guidelines	Document	Leading expert(s)
Apple (Revision)	TG/14/9(proj.3)	Mrs. Lean (GB)
Apricot (Revision)	TG/70/4(proj.3)	Mr. Harsanyi (HU)

POSSIBLE “FINAL” DRAFT TEST GUIDELINES
TO BE DISCUSSED AT TWF/36

New draft to be submitted to the Office of the Union
before July 22, 2005

Species	Basic Document	Leading expert(s)	Interested experts (countries) (for name of experts see List of Participants to be annexed to draft report)
Avocado (Revision)	TG/97/4(proj.3)	Mr. Barrientos-Priego (MX)	AU, BR, ES, FR, IL, NZ, ZA, IPGRI
Blackberry and Hybrid berries	TG/73/7(proj.2)	Mr. Schulte (DE), Mr. Barnaby (NZ)	AU, BR, CA, GB, HU, NL, PL, SK, ZA, IPGRI
Cactus Pear (<i>Opuntia</i> spp.) (Partial revision)	TG/2xx/1 (table of synonyms to be added)	Mr. Barrientos-Priego (MX)	ES, IL, IT, ZA, IPGRI
Hop	TG/HOP(proj.1)	Mrs. Rucker (DE) (TWA)	AU, GB, NZ, PL, ZA, CPVO
Mango (Revision)	TG/112/4(proj.3)	Mrs. Buitendag (ZA)	AU, BR, ES, IL, MX, IPGRI
Sour Cherry (Revision)	TG/CHERRY- SO(proj.1)	Mr. Harsanyi (HU)	AU, CA, CZ, DE, FR, JP, NL, PL, RO, SK, CPVO
Sweet Cherry (Revision)	TG/CHERRY- SW(proj.1)	Mr. Harsanyi (HU)	AU, CA, CZ, DE, ES, FR, JP, NL, NZ, PL, SK, ZA, CPVO

DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWF/36

New draft to be submitted to the Office of the Union
before August 5, 2005

Species	Basic Document	Leading expert(s)	Interested experts (countries) (for name of experts, see List of Participants)
Banana (<i>Musa</i> spp) (Revision)	TG/123/3	Mrs. Machado (BR)	AU, ES, FR, IL, KE, ZA, IPGRI
Black Currant (Revision)	TG/40/6	Mr. Barnaby (NZ)	CA, CZ, DE, HU, PL, SK
Blueberry (Revision)	TG/137/3	Mrs. Julia Borys (PL)	AU, AR, DE, HU, NZ, ZA
Hawthorn (<i>Crataegus</i> spp.)	TG/HAWTH(proj.1)	Mr. Barrientos-Priego (MX)	DE
Fig (<i>Ficus carica</i>)	TWF/30/4	Mr. Chomé Fuster (ES)	AR, DE, ES, FR, IL, JP, PT, ZAIPGRI
Grapevine (<i>Vitis</i> L.)	TG/50/8	Mr. Chomé Fuster (ES), Mr. Schulte (DE)	AR, AU, BR, CA, FR, HU, IL, KR, NZ, ZA
Papaya (<i>Carica papaya</i> L.)	New	Mr. Barrientos-Priego (MX)	AU, BR, IL, MX, NZ, ZA
Passion Fruit (Fruit species)	New	Mr. Venter (ZA)	BR, IL, KE, ZA, MX, JP, IPGRI
Pecan nut	TG/PECAN(proj.2)	Mrs. Montes (AR)	IL, BR, MX, ZA, IPGRI
Pineapple (<i>Ananas comosus</i>)	TG/PINEAP(proj.1)	Mr. Brand (FR) and Mr. Salaices (ES)	AU, BR, JP, KE, MX, PT, ZA, IPGRI
Sea Buckthorn (<i>Hippophaë</i> L.)	New	Mrs. Bátorová (SK)	DE, PL, RO

2006

Species	Basic Document	Leading expert(s)	Interested experts (countries) (for name of experts, see List of Participants)
Pistachio (<i>Pistacia vera</i> L.)	New		ES, IL, ZA
Pomegranate (<i>Punica granatum</i> L.)	New		ES, IL

[End of Annex IV and of document]