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UPOV

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Fortieth Session
Guanajuato, Guanajuato State, Mexico, June 12 to 16, 2006

REPORT

adopted by the Technical Working Party for Vegetables

Opening of the Session

1. The Technical Working Party for Vegetables (TWV) held its fortieth session in the Quijote Hall of the Hotel Real de Minas in Guanajuato, Guanajuato State, Mexico, from June 12 to 16, 2006. The list of participants is reproduced in Annex I to this report.

2. The TWV was welcomed by Miss Enriqueta Molina Macías, Director of the National Service of Seed Inspection and Certification (SNICS).

3. The session was opened by Mr. Niall Green (United Kingdom), Chairman of the TWV, who welcomed the participants and, in particular, new participants to the TWV. He expressed his pleasure at the hosting of the TWV in Guanajuato, Mexico. He remarked that since joining UPOV in 1997, Mexico had made a very important contribution. It had hosted the Technical Working Party for Agricultural Crops in 2001 and the Technical Working Party on Automation and Computer Programs in 2002. Miss Enriqueta Molina Macías was the President of the Council of UPOV and Mr. Alejandro Barrientos-Priego was the Chairman of the Technical Working Party for Fruit Crops. Experts from Mexico had developed Test Guidelines for Opuntia, which had been adopted by UPOV in 2004, and were developing Test Guidelines for Avocado, Dragon-fruit, Grain Amaranth, Hawthorn, Papaya, Tagetes as well as Husk Tomato, which would be discussed at the TWV session. He reported on the successful running of the Preparatory Workshop, which took place on Sunday, June 11, 2006, and was attended by some 50 participants.

4. The TWV received a presentation on the plant breeders' rights system in Mexico by Mr. Francisco López Tostado, Vice-Minister of Agriculture, who explained that Mexico was developing legislation in line with the 1991 Act of the UPOV Convention, and then received messages of welcome from Mr. Juan Carlos Romero Hicks, Governor of Guanajuato, and Mr. Francisco Javier Mayorga Castañada, Minister for Agriculture. Copies of those addresses are reproduced in Annex II to this document.

5. Miss Enriqueta Molina Macías provided participants with an overview of the operation of the plant breeders' rights system in Mexico, a copy of which is attached as Annex III.

Adoption of the Agenda

6. The TWV adopted the agenda as reproduced in document TWV/40/1 Rev.

Short Reports on Developments in Plant Variety Protection

(a) Reports from members and observers

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

8. The expert from Poland provided a brief overview of the plant breeders' rights and descriptive list system in Poland.

9. The TWV heard that, in the Czech Republic, the plant breeders' rights law was being amended, in particular with regard to the articles concerning farm-saved seed and cross-licensing. It also heard that the seed law was being amended concerning field inspection and seed certification.

10. The experts from France informed the TWV of the enactment, on March 2, 2006, of Law No. 2006-245, which authorized the ratification of the 1991 Act of the UPOV Convention. It was noted that there had been a 20% reduction in the number of applications since 2004 and that such reductions could have repercussions on the level of expertise for the future. The experts explained that disease resistance characteristics were considered to be important for DUS testing, provided they were well defined, protocols were harmonized and the reference collection was fully described. In that respect, France was willing to provide reference varieties to other members of the Union. It was reported that work was being done to investigate the potential for molecular markers linked to disease resistance. In collaboration with GEVES, INRA and ten seed companies, a project was being undertaken to harmonize disease test methodologies, hosts and strains, in relation to the UPOV Test Guidelines and CPVO protocols; to calibrate the hosts and strains for conformity, store standards available for partners (free access) and clients (participation to the costs); and to share the maintenance of hosts and strains. The range of host/pathogens covered all species listed in the European Union and 62 couple host/pathogens. The seeds samples were available free of pathogens considered harmful for the European Union. The distribution had involved 12 partners and would be open to other clients at a later date. Improvement of methodologies to adapt to a new genetic context or pathogen epidemiology were running for: tomato nematode resistance, to take account of variability of the expression of the Mi gene in different genetic context through bio tests - level of resistance with example varieties; *Phytophthora capsici* and CMV pepper disease resistances, to take account of the

quantitative disease resistance; powdery mildew melon disease resistance, to take account of the evolution of the fungi strains 1, 2, 5 and 3-5 for *Podosphaera xanthii* (ex *Sphaerotheca fuliginea*) and strain 1 for *Golovinomyces cichoracearum* (ex *Erysiphae cichoracearum*).

11. The TWV heard that in South Africa, in 2005, a total of 218 applications had been filed, of which 9 applications being for vegetable varieties. Of the total applications, 149 applications had been filed from non-resident companies, whereas 69 applications had been filed by South African companies. Maize was the crop for which the most applications were filed in 2005, including single cross and three-way hybrids. There was also a noticeable increase in the number of applications of GMO varieties, especially GMO maize, soybean and cotton.

12. The TWV heard that, in China, plant variety protection was administrated by two governmental organizations, namely, the Ministry of Agriculture and the State Forestry Administration. The Ministry of Agriculture had a DUS testing center in Beijing and 14 sub-centers spread over the country. Until the end of May 2006, a total of 3,322 applications had been filed with the Ministry of Agriculture, and 810 titles of protection had been granted. Of the total applications, 133 applications were for vegetables of which 117 applications were made by foreign breeders from Australia, Israel, Japan, Netherlands, New Zealand, Republic of Korea and the United States of America. The TWV was informed that the Technical Working Party for Agricultural Crops (TWA) would hold its next session in Beijing in 2006.

13. The TWV was informed that, in the Republic of Korea, as of December 31, 2005, a total of 2,541 applications had been filed and 1,434 titles of protection had been granted. A meeting was held in the Republic of Korea in March 2006 with PVP experts from Japan with a view to establishing a regional cooperation system between North-East Asian countries. During that meeting, harmonization of Test Guidelines and the organization of ring tests for rice, rose and Chinese cabbage were discussed. The experts from the Republic of Korea informed the TWV that the tenth session of the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT) would be held in Seoul from November 21 to 23, 2006. It was planned to hold a national seminar on November 20, 2006, where case studies on the use of molecular markers for DUS testing in several invited countries would be presented. It was planned to hold, on November 24, 2006, an international symposium on the "Application of molecular technologies for plant breeding and DUS testing" in cooperation with the National Seed Management Office (NSMO), the Korean Society for Seed Science & Industry (KOSID) and UPOV.

14. The expert from the European Community (Community Plant Variety Office (CPVO)) reported that the European Community had been a member of UPOV since July 2005. In 2005, it had received a total of 2,733 Community plant variety rights applications (a 5% increase from the previous year), of which 296 were for vegetable varieties (an 11% increase from the previous year). Overall, it had received over 25,000 applications in all crop sectors since the CPVO commenced operations in 1995. The vegetable crop sector had received 196 applications in the first five months of the year 2006, which represented a 58% increase compared to the same period in 2005. There was a continuing trend by breeders to file applications of hybrid varieties of tomato and *Cucurbitaceae* in order to be protected against vegetative multiplication in certain areas of the EU. There was also a shift for some breeders to make a prior application for national plant breeders' right for parent lines in vegetables before filing for a Community application. It was reported that recent brainstorming meetings organized by the CPVO emphasized the value of its co-financing research and development projects in achieving improvements in DUS testing; at present there were projects under way on: (i) harmonisation of disease resistance techniques for French bean and tomato; and (ii) development and

evaluation of molecular markers linked to disease resistance genes for tomato DUS testing (an Option 1(a) approach). There was continued development of the denomination database covering the whole of the European Union, in which there was close collaboration with UPOV. In the second half of 2005, the CPVO had launched a "Strategic Discussion" amongst all the Member States of the EU to contemplate the harmonization and possible rationalization of where and how DUS testing should be carried out in the future within the Community. Finally, there were discussions in the European Commission in relation to the CPVO possibly assuming greater responsibilities at the EU level, in particular with relation to the Common Catalogue and certain aspects of national listing.

15. The TWV heard that in Kenya, since 1997, 787 applications had been filed, and 205 PBR titles had been issued. Mostly, the grants had been based on DUS test results taken over from the CPVO as well as from the PVP authorities of France, Germany, Israel and the Netherlands. It was expected that further titles would be granted by the end of the year 2006. In 2007, in association with the next session of the TWV and in cooperation with UPOV, a workshop on PVP would be organized in Nairobi for African countries.

16. In Japan, in 2005, the Seeds and Seedlings Law was amended to extend the coverage of protection to products made directly from harvested material of the protected variety. A list of different kinds of products to be covered by the plant breeder's right was established by a Government Order, which contained bean jam made from small red bean, boiled rice, mat made from Japanese rush and processed tea. DUS analysis techniques would be used to identify varieties in the case of possible infringement. The maximum duration of the breeder's right was prolonged from 25 years to 30 years for woody plants and from 20 years to 25 years for other plants. The Customs Law of Japan was also amended to stop the import and export of products infringing the PBRs registered in Japan. The TWV was informed that a ring test on Chinese cabbage was underway with the Republic of Korea with a view to the harmonization of test guidelines for this crop. A workshop on enforcement would be held in Tokyo in November 2006 in cooperation with UPOV, where a wide range of aspects relating to the enforcement of PBR, including legal and technical aspects, would be discussed. The Japanese Delegation invited all interested parties to participate in this workshop.

17. The TWV heard that Brazil was bound by the 1978 Act of the Convention. Over the last eight years, the Brazilian Plant Variety Protection Service had received more than 1,100 applications and almost 900 protection titles were in force. Of that total, 56 applications and 38 titles were for vegetables. Currently, 67 species were eligible for protection. For vegetable species, test guidelines had been prepared for carrot, *Cucurbita,* French bean, lettuce, okra, onion, tomato pepper and sweet pepper. Currently, Brazil was in the course of amending its PVP law in order to extend the scope of protection to cover harvested material, to restrict the farmers' privilege, to expand the protection to cover all plant genera and species and to strengthen the enforcement of the PBR.

18. The TWV was informed that, in the Netherlands, Naktuinbouw (the Dutch Inspection Service for Horticulture), an independent organization appointed by the Ministry of Agriculture to carry out control and certification, had been given the responsibility for the DUS tests for national listing and PBR. The results of the DUS tests were reported to the Board for Plant Varieties, the decision body of the Ministry of Agriculture for the grant of PBRs and National Listing. Naktuinbouw had ISO 9001 accreditation and was accredited for a number of species according to ISO 17020. On January 1, 2006, all responsibilities for DUS tests in the Netherlands had been transferred to Naktuinbouw. All varieties of agricultural, vegetable and

ornamental species were tested by Naktuinbouw for national PBR and community PBR purposes. Annually, 2,400 applications (1,000 ornamental, 900 vegetable and 500 agricultural varieties) were filed. A new Seed Law entered into force on February 1, 2006, with the effect that: the Plant Variety Board was appointed as the unique decision body for PBR and National Listing; all costs for tests would be covered by the testing fees; and the annual fees for PBR and national listing were replaced by a flat administrative fee (30 Euros). It was reported that, in 2005, the number of applications for national PBR had shown a slight increase, due to the increased applications for F1 hybrids.

19. The TWV was informed that, in Spain, the number of applications for National Listing had decreased. This had not been caused by decreased breeding activities in the country, but rather by the tendency of large seed companies to file applications in the countries where their headquarters were located.

20. The TWV heard from the expert from Germany that the number of vegetable applications for PBR had decreased since the 1990's, whereas the number of medicinal and aromatic varieties to be tested was slightly increased. In 2006, 18 varieties belonging to 10 vegetable species would be tested for plant variety protection, of which 10 were being tested on behalf of the CPVO. A total of 21 varieties of medicinal and aromatic plants, belonging to 11 species, would be tested for PBR in 2006; six varieties would be tested on behalf of the CPVO.

21. The TWV was informed that, in the United Kingdom, a revision of fees for DUS tests would be introduced later in 2006 to recover full test costs. Annual fees for retention of varieties on the UK national list and for PBR would be abolished and a new fee would recover the full cost of administration. The Scottish Agricultural Science Agency (SASA) moved to a new building on its farm premises in February 2006. Currently, photoperiod experiments were underway to characterize pea varieties for internode and flowering genotypes. Internode measurement would be recorded automatically from digital images. The result would further reduce the size of candidate groups for DUS testing.

22. A representative of the International Seed Federation (ISF) reported on the World Seed Conference in Copenhagen in May 2006, which had 1,340 participants from 61 countries. There was discussion on a paper which resulted in an agreement that breeding with parent lines found incidentally in hybrid seed was not acceptable.

(b) Reports on developments within UPOV

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

Molecular Techniques

24. The TWV considered document TWV/40/2.

25. It was agreed that it would be useful for experts to provide information on work in relation to the use of molecular markers, in particular in relation to disease resistance. Experts from the European Community (tomato), France (tomato, melon, chicory, shallots), Netherlands (tomato, lettuce, asparagus), Spain (pepper) and ISF (tomato in relation to essentially derived varieties) agreed to prepare documents for information and discussion.

TGP Documents

26. The Office of the Union considered the TGP documents below on the basis of document TWA/40/3.

TGP/4 Constitution and Management of Variety Collections

27. The TWV discussed document TGP/4/1 Draft 7 and agreed to propose the following:

3.1.2.2.2 to consider whether to add a recommendation that the breeder should be informed of the supply of parent lines, submitted as a part of the examination of a candidate hybrid variety, to other variety collectors

TGP/9 Examining Distinctness

28. The TWV discussed document TGP/9/1 Draft 7 and agreed to propose the following:

2.3.3.2 to read "as a general rule, qualitative characteristics are not influenced by the environment"

2.6.1 to explain that:

(a) the combined phenotypic distance / GAIA approach is used predominantly with data obtained from the first growing cycle;

(b) the differences for individual characteristics used to calculate the combined phenotypic distance should be meaningful; and

(c) the combined phenotypic distance / GAIA approach is used to identify similar varieties, but distinctness against similar varieties is then on a characteristic-by-characteristic basis.

2.6.1.7 to add "and vegetatively propagated" after "self-pollinated"

4.3 it was agreed that Section 4.3 should be amended in accordance with the following changes to the schematic summary in 4.3.2:

(a) "G" to refer to observation of a group of plants or part of plants and to explain that "G" observations could not be used for the assessment of uniformity by statistical methods;

(b) "S" to refer to observation of (at least) the number of single, individual plants or parts of plants recommended in Section 3.5 of the Test Guidelines and to explain that the individual plant data obtained could be used for the assessment of uniformity by statistical analysis;

(c) box G1 to show a general overall observation of the plot and not individual plant observations;

(d) box G2 to indicate more than one measurement; and

(e) to add a new box to the "S" illustration, corresponding to the existing box G1 and indicating that the number of plants observed would correspond to the number of plants specified in Section 3.5 of the Test Guidelines

4.4 to include reference to taste, flavor and smell for "V"

5.2.1.1 (b) to amend the term "combination of characteristics" to avoid confusion with "combined characteristics" as defined in the General Introduction, Section 4.6.3, i.e. where the combination is biologically meaningful, for example the ratio of length to width.

5.2.3.14 final sentence: to delete "when based solely on notes"

5.2.4.21 to accept the text

5.4.2.1 to use Case 1 and Case 2 as examples and to add an example with a candidate and similar variety with the same notes for length and for width, but with a difference for the combined characteristic width / length ratio

5.4.2.2 to be amended to reflect the comments made above in respect of Section 2.6.1.

6.5 to accept the text "panels of"

TGP/10: Examining Uniformity

29. The TWV discussed document TGP/10/1 Draft 4 and agreed to propose the following:

3.3 to explain the cases in cross-pollinated varieties where uniformity is assessed for some characteristics on the basis of off-types and standard deviations, i.e. any off-type plants are identified and then standard deviations are applied (disregarding off-type plants).

4.2.5.1 the TWV agreed that Version 2 should be retained, whilst noting that the ISF representatives preferred Version 1.

4.3 to explain that measurements might be used to identify off-types where, for example, the observations were done at different times (e.g time of flowering), but to explain that the use of measurements would reflect off-types which could be observed visually.

4.4.1.2 to introduce a specific paragraph to explain the higher off-type tolerance for inbred plants in hybrid varieties

4.5 to correct the cross-reference to 4.4.1.4

TGP/8: Use of Statistical Procedures in DUS Testing

30. The TWV agreed that, as a result of its late availability, it would not be appropriate to discuss document TGP/8/1 Draft 4 at the session. It was agreed that written comments should be sent to the Office of the Union by the end of July.

TGP/11.1 Examination of Stability and "Verification"

31. The TWV discussed document TGP/11/1 Draft 1, as introduced by the expert from the European Community.

32. The TWV recalled that the General Introduction, Chapter 7.3.1, explained that "experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable. Furthermore, if the variety is not stable, material produced will not conform to the characteristics of the variety, and where the breeder is unable to provide material conforming to the characteristics of the variety, the breeder's right may be cancelled.". Therefore, there was limited scope for elaboration of guidance on the examination of stability. However, it agreed that TGP/11 might be able to provide some practical guidance for those cases where an examination of stability was required.

33. It was agreed that a new draft of TGP/11/1 should be produced without Section 3 "Verification". With regard to the Section on verification, it was agreed that the Technical Committee should consider whether to invite the Administrative and Legal Committee to use the text as basis for information material concerning Article 22 (1)(b)(i) of the 1991 Act of the UPOV Convention.

34. The TWV was invited to provide written comments on Sections 1 and 2, to the Office, by the end of July 2006.

TGP/12 Section 1 *Special Characteristics: Characteristics expressed in response to external factors*

35. The TWV discussed document TGP/12/ Section 1 Draft 3 and agreed to propose the following:

1.3 Table (d) (ii)	text in square brackets to read "[in general, tolerance is not a suitable characteristic for DUS purposes]"
2.3.2	paragraph before "Tolerance" to be deleted. Definition of tolerance to read "Tolerance is the ability of a plant variety to endure biotic stress (including disease) or abiotic stress, without serious consequences for growth, appearance and yield." Title of Section 2.3 to be amended accordingly.

TGP/13: Guidance for New Types and Species

36. The TWV discussed document TGP/13/ Draft 6 and agreed to propose the following:

2.3	experts from the European Community, in conjunction with experts from the Netherlands, to draft a section on the process for developing descriptions where the variety is the first of the species to be examined for DUS by any member of the Union.

TGP/14 Section 2: Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents: Botanical Terms

Plant shapes (including hair types)

37. The TWV discussed document TGP/14.2.1(&.2) Draft 5 and agreed to propose the following:

Section II the TWV expressed concern at the replacement of single overall shape characteristics by a number of characteristics describing the individual components of shape. In particular, it was agreed that a characteristic describing the overall shape was important for variety description purposes. Therefore, it proposed that both approaches should be acceptable. However, it considered that, where an overall shape characteristic was included in the Test Guidelines, it would be worthwhile considering the inclusion of charts such as that in section 2.2, Examples 4 and 5 in the explanations in Chapter 8.

In order to consider the matter further, it was agreed that an exercise should be undertaken. Experts from Germany and France will provide photographs of up to 50 onion varieties and experts from France, the Netherlands and South Africa will provide photographs of up to 50 varieties of *Cucurbita maxima* to the Office. Selected photographs will then be circulated to the TWV, who will be invited to classify the varieties according to characteristics for overall shape, as contained in the Test Guidelines, and according to components of shape according to the proposals in TGP/14.

Section IV it was agreed that, for the purposes of translation, it would be preferable to use non-botanical terms e.g. “kidney-shaped” rather than “reniform”.

38. Further written comments were also invited to be sent to the Office by the end of November 2006.

39. The TWV agreed that Mr. Sergio Semon (European Community) should participate in the TGP/14 Subgroup on behalf of the TWV.

Color characteristics

40. The TWV discussed document TGP/14.2.3.1 Draft 2 and agreed to propose the following:

Part II, 2.1 it was agreed that the approach to color set out in Section 2.1 did not address the actual situation in some vegetable crops, e.g. melon and onion, where the hue is described in two different, but connected, characteristics. In the second characteristic, note 1 corresponds to “absent”. It noted that, whereas the RHS Colour Chart provided many possibilities for many ornamental plant color characteristics, the RHS Colour Chart was not sufficient to cover the range of possibilities in the green colors, thus requiring combinations of color hue characteristics.

Part II, 2.1.2 (c)	to be clarified

Color names

41. The TWV did not have any comments on document TGP/14.2.3.2 Draft 4.

TGP/7 Development of Test Guidelines

42. The TWV agreed that the revision of TGP/7 should include elaboration of the two uses of the grouping characteristics, i.e.

1. […] "to select, either individually or in combination with other such characteristics, *varieties of common knowledge that can be excluded from the growing trial* used for examination of distinctness".
2. […] "to organize the growing trial so that *similar varieties are grouped together"*.

and to consider indicating in Chapter 5.3 of the Test Guidelines for which purpose the grouping characteristics were intended.

Discussion on Draft Test Guidelines

Bitter Gourd

43. The subgroup discussed document TG/MOM (proj.1), as presented by Mr. Mitsuo Yuasa (Japan), and agreed the following:

Cover page	to add the English names "Casilla gourd, Balsam apple", French names "Momordique, Conconbre africain", German name "Balsambirne" and Spanish names "Cundeamor, Balsamito, Momordica"; to delete the Spanish name "Cundiamor"
Sec.5.3	to add characteristic 8
Ch.2	to read: "Stem: length of internode of main stem (between 15th and 20th node)
Ch.7	state 2 to read: "medium elliptic"
Ad. 7	the drawings to be checked by the expert from Japan
Ch.8	to receive the states "five lobes (1), seven lobes (2), nine lobes (3)" and to be observed as a qualitative characteristic (QL)
Ch.11	to read: "Plant: number of nodes up to the node with the 1st female flower"
Ch.16	to have the states of expression "triangular (1), ovate (2), spindle-shaped (3), oblong (4)"
Ch.17	the state "deep green" to be replaced with "dark green"
Ad.18	to receive new illustrations

Ad.19	to receive new illustrations
Ad.20	to receive new illustrations
Ch.20	to read: “Fruit: size of wart”
Ch.21	to read: “Fruit: shape of top of wart”
Ch.22	to read: “Fruit: number of warts”
Ch.23	to read: “Fruit: spine on wart”
Ch.25	to replace “QN” with “PQ”
Ch.26	to split into two characteristics reading: “Fruit: bitterness” with the states of expression “absent (1), present (9)” and “Fruit: intensity of bitterness” with the states of expression “weak (3), medium (5), strong (7)”
Ad. 29	to receive representative pictures to indicate the three states of expression
Ch.30	to read: “Time of physiological maturity” with example varieties to be provided by the expert from Japan
Sec. 8.1 (e)	the expert from Japan to provide a definition of “harvest maturity”
TQ.5	to insert characteristic 8
TQ.7.3	to add “fruit, young shoot/leaves, medicinal”
TQ.7	the sentence in the bottom to read: “A representative color photograph <u>of fruit</u> of the variety should accompany the Technical Questionnaire”
TQ.9.3	to be deleted

Carrot (Revision)

44. The subgroup discussed document TG/49/8(proj.1), as presented by Mr. Francois Boulineau (France), and agreed the following:

Sec.2.3	to replace “25 g or 30,000 seeds” by “50 g or 50,000 seeds”
Sec.3.4.1	to replace “200 plants” by “400 plants”
Sec.3.5	to replace “60 plants” by “40 plants”
Sec.4.2.1	to have the additional sentence inserted to read: “Uniformity could be additionally assessed on the basis of external color of root (characteristic 13) and color of core of root (characteristic 19). In such a case, a population standard of 2% and an acceptance probability of 95% should be applied. In the case of a sample size of 400 plants, 13 off-types are allowed.
Sec.4.2.2	to replace “200 plants” and “7 off-types” by “400 plants” and “13 off-types”, respectively
Sec.5.3	to delete “(g) Root: time of coloration of tip in longitudinal section (characteristic 28)” and add characteristics 31 and 32 as grouping characteristics
Ch.12	to replace PQ by QN
Ch.14	to include “<u>For non-white varieties only:</u>”

Ch.16	to delete the asterisk
Ch.19	to add the state "purple (6) with an example variety provided by the Netherlands
Ch.20	to include "For non-white varieties only:"
Ch.21	to add the state "purple (6) with an example variety provided by the Netherlands
Ch.22	to include "For non-white varieties only:"
Ch.26	to receive explanation in Section 8; to replace the word "small" by "low"
Ch.27	to delete (b); to replace VG by MS
Ch.28	to delete the asterisk and (b); to replace VG by MS
Ch.30	to receive a (c)
Ch.31	to receive an asterisk, a (c) and an explanation to be provided by the expert from France; to replace the states of expression with "absent or very low (1), intermediate (2), high (3)"
Ch.32	to receive an asterisk, a (c) and an explanation to be provided by the expert from France
Ch.33	to be deleted
Sec.8.1 (a), (b)	to deleted the word "All"
Sec 8.1	to add (c) reading: "Observations should be made when the plant is flowering during the second DUS cycle.
Ad.33	to be deleted
TQ.1	to replace "Latin name" with "Botanical name"
TQ.5.3	to add characteristics 31 and 32

Cauliflower (Revision)

45. The subgroup discussed document TG/45/7(proj.1), as presented by Mr. François Boulineau (France), and agreed the following:

Cover page	(a) UPOV code to read "BRASS_OLE_GBB"; (b) botanical name to read "*Brassica oleracea* L. convar *botrytis* (L.)Alef. var. *botryris* L." (c) to add "*Brassica caulifloria* Lizg." as alternative botanical name (d) Spanish common name to read "Coliflor"
2.3	to indicate 5,000 seeds or 10 g
3.5	to read "Unless otherwise indicated, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observations made on all plants in the test."
4.2.2	to add an additional tolerance for inbred plants: population standard of 3%, i.e. 4 plants
4.2.3	to be deleted

5.3	to add Chars. 28 and 29
Table of Characteristics	(a) to check the availability of example varieties and to circulate any changes for approval by correspondence; (b) example variety to be corrected to “Romanesco ottobrino”
Chars. 2, 3	to be indicated as VG/MG
Char. 4	to add note (a)
Chars. 5, 6	to be indicated as VG/MS and (*) to be added
Char. 7	to read “Leaf: ratio width/length” with the states: small (3); medium (5); large (7) and to be indicated as QN
Char. 8	to be indicated as QL
Char. 9	to be indicated as PQ
Char. 11	to be deleted
Char. 12	to read “Leaf: twisting of tip”
Char. 15	to be deleted
Char. 18	to be indicated as QN and state 3 to read “fully covered”
Char. 19	(+) to be added with illustration
Char. 22	to add note (b) and (+) to be added with an explanation that the doming is observed as the angle of the first branch
Char. 23	to be indicated as PQ and to add state 5 violet with an additional example variety
Char. 25	(+) to be added using the illustration for Ad .24
Char. 28	to have the following sub-characteristics, which would be indicated as (*) characteristics: 28.1 “Earliness in spring/summer trial (50% at harvest maturity)” 28.2 “Earliness in autumn/early winter trial (50% at harvest maturity)” 28.3 “Earliness in over winter trial (50% at harvest maturity)” (+) to be added with explanation of the conditions for the different types of trial
Char. 29	(+) to be added with an explanation of the levels of male sterility in each state. Example variety to be provided for state 2
Char. 30	to be deleted
Ad. 21	illustration to be provided for state: triangular
Ad. 28	to read “In cauliflower, earliness is strongly influenced by the temperature and the season of growing. Nevertheless, at the same place and for the same growing season, earliness is an important characteristic for the assessment of distinctness.”. Table to be amended according to Char. 28.
TQ 1.1	to read “Botanical name: *Brassica oleracea* L. convar. *botrytis* (L.) Alef. var *botrytis* L.

TQ 5.2	to be accepted
TQ 5.5	to have new Chars. 28.1, 28.2 and 28.3
TQ 5.6	to be aligned with wording in Table of Characteristics
TQ 5.7	to be deleted

Chamomile (Revision)

46. The subgroup discussed document TG/152/4(proj.1), as presented by Mrs. Heidemarie Heine (Germany), and agreed the following:

Cover page	to include "*Chamomilla recutita* (L) Rauschet" as synonym of *Matricaria recutita* L. UPOV Code to be checked
Sec.2.3	the minimum quantity of plant material to be 5 g
Sec.3.5	to read: "Unless otherwise indicated, all observations on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observations made on all plants in the test."
Ch.1.	to receive an explanation in Section 8.2 to be provided by Germany
Ch.1	after this characteristic a new characteristic to be added to read: "Plant: attitude of lower side shoots (QN, VG)" with the states of expression "erect (1), semi-erect (3) and prostrate (5), with example varieties to be provided by Germany
Ch.3	to be deleted
Ch.4	the word "loose" to be replaced by "sparse"
Ch.5	example varieties for states 3 and 7 to be provided by Germany
Ch.6	to receive the states of expression "light green (1), medium green (2) with example variety "Robumille", dark green (3) with example variety . "Camoflora" and grey green (4)" □
Ch.9	to be placed after Ch.11
Ch.11	to replace PQ by QN; to have the states of expression "weak (3), medium (5) and strong (7)"
Chs.12, 13	to replace MG by MS; to check whether both characteristics are necessary
Ch.14	to read: "Amount of total essential oils"
Ch.15	to read: "Amount of chamazulene"
Ch.16	to read: "Amount of (-)α-bisabolol
Ads. 14, 15+16	to be improved by Germany

Cucumber, Gherkin (Revision)

47. The subgroup discussed document TG/61/7(proj.2), as presented by Mrs. Marian van Leeuwen (Netherlands) and agreed the following:

General	all endnotes to be deleted
5.3	to add Char. 17 "Ovary: color of vestiture" and to delete Char. 37
6.5	to read "(a)-(e)"
Table of Chars.	indication of "(C)" and "(G)" to be deleted. Example varieties to be checked.
Char. 3	to be deleted
Char. 5	"predominantly" to be deleted
Char. 7	to read "Leaf blade: ratio length of terminal lobe / length of blade"
Char. 8	state 2 to read "right-angled"
Char. 11	to have the states: absent or weak (1); moderate (2); strong (3)
Char. 14	to have the states: monoecious (1); subgynoecious (2); gynoecious (3); hermaphroditic (4)
Char. 15	(+) to be added with an explanation that predominantly means more than 50%. To add a new state after state 4: "predominantly three or four".
Char. 16	to be deleted
Char. 17	to read "Ovary: color of vestiture" and to be indicated as QL with the states: white (1); black (2). (+) to be added with an explanation to observe before flower drop
Char. 23	"predominantly" to be deleted
Char. 26	(+) to be added
Char. 29	to be indicated as QN, with the states: absent or weak (1: example varieties "Darius , Diana"); medium (2: example variety "Sprint"); strong (3: example variety "Vert petit de Paris").
Char. 30	(+) to be added with an explanation that the sutures are slightly depressed
Chars. 33, 34	to be deleted
Char. 35	to be indicated as QL and (+) to be added with an illustration of hairs and prickles
Char. 36	state 1 to read "very sparse"
Char. 37	to read "Only varieties with white ovary vestiture: Fruit: color of vestiture". State 4 to be deleted.
Char. 40	to be deleted
Char. 41	to read "Fruit: length of stripes" and state 1 to read "absent or very short". (+) to be added with an explanation that the stripes are characterized by color and not by a depression

Char. 42	to delete "(stripes excluded)"
Char. 43	to read "Fruit: distribution of dots" with the states: in bands only (1); more concentrated in bands (2); evenly distributed (3)
new (after Char. 43)	to read "Fruit: length of fruit containing dots", with the states: distal $^1/_3$ (1); distal ½ (2); distal $^2/_3$ (3); excluding area around peduncle (4); whole length (5). To be indicated as PQ, VG.
Char. 44	(+) to be added with an explanation that the density is only considered in the dotted areas
Char. 45	to add example varieties "Joen-bakdadaki" (state 3); "Nakdong-chungjang" (state 5); "Dongji-chungjang" (state 7)
Char. 47	to be deleted
Char. 49	to be deleted
Char. 52	name for *Sphaerotheca fuliginea* to be changed to "*Podosphaera xanthii"*
Char. 53	to check if the resistance mechanism is different from that for Char. 52 and, if not, to be deleted. If retained, to change the name to "*Golovinomyces cichoracearum*" , to be indicated as QN, to have the states: susceptible (1); intermediate resistant (2); highly resistant" (3) and example varieties to be provided.
Char. 54	to be indicated as QN, to have the states: susceptible (1); intermediate resistant (2); highly resistant" (3) and example varieties to be provided. Explanation to be modified accordingly.
Ad. 14	first column of table to be deleted
Ad. 23	illustrations to be provided for all states
Ad. 30	illustration of suture to be provided in variety with ribs – in plane view and in cross-section
Ad. 45	to add "which can be removed by rubbing"
Ad. 52, 53	to read "Maintenance of disease"
TQ header	wording for hybrids to be deleted
TQ 4.2.1 (a)	to read "Self-pollination (including inbred lines)"
TQ 4	GN 32 to be deleted
TQ 5	to add Char. 17
TQ 5.8	to be deleted
TQ 5	to add Chars. 50, 51, 52, 55 and 56, but not to add (*) to those characteristics in the Table of Characteristics
TQ 6	example to be cotyledon bitterness / absent / present
TQ 7	request for photograph to be deleted
TQ 9.3	to be deleted

Cucurbita moschata

48. The subgroup discussed document TG/CUC_MOS(proj.2), as presented by Mrs. Chrystelle Jouy (France), and agreed the following:

Cover page	to reproduce the table of alternative names from TG/155/3: Pumpkin and TG/119/4: Vegetable Marrow, Squash in the associated documents section
Char. 1	to read "Cotyledon: ratio width / length", with the states small (3), medium (5), large (7)
new (after Char. 1)	to read "Cotyledon: position of broadest part" with the states: at middle to very slightly towards base (1), intermediate (2); moderately towards base (3).
Char. 2	to be indicated as QN
Char. 3	to be deleted
Char. 5	to read "Leaf blade: margin" with the states: entire or very weakly incised (1); weakly incised (2); moderately or strongly incised (3). (+) to be added with illustration.
Chars. 10, 11	note (a) to be deleted
Char. 14	example variety "Shishigatani" to be deleted
Char. 16	"maximum" to be deleted. (+) to be added with an explanation to take the diameter from the broadest part.
Chars. 16, 17	"maximum" to be deleted
Char. 18	to read "Fruit: position of broadest part" and to be indicated as QN. State 2: "the" to be deleted.
Char. 20	to be indicated as QN with the states: absent or very weak (1); weak (2); medium or strong (3)
new (after Char. 20)	to read "Fruit: length of neck (where present)" with the states: short (1); medium (2); long (3)
Char. 21	to read "Fruit: curving (longitudinal axis)" with the states: absent or very weak (1); weak (3: example variety "Ponca"); medium (5: example variety "Longue de Nice"); strong (7: "Trombolino d'Albenga"). (+) to be added with illustration.
Chars. 22, 23	to replace "base" with "stem end"
Char. 24	to replace "apical part" with "blossom end"
Char. 26	to have the states: small (3); medium (5); large (7)
Char. 28	to add an example variety for state 1
Char. 32	to be retained and example variety to be provided for state 1
Char. 34	example varieties to be provided for states 3 and 5
Char. 35	to have the states: yellow (1); yellowish orange (2); orange (3) and example varieties to be provided

Char. 36	to be deleted
Char. 37	to read “Fruit: thickness of flesh (at level of seed cavity)”
Char. 38	to read “Fruit: diameter of flower scar”
Char. 40	to read “Seed: ratio width / length” and to amend the table in Ad. 40
Char. 41	to read “Seed: color of coat”. State 1: “white” to be deleted
Chars. 42 to 46	to be deleted
8.1 (a)	to read “observations on the leaf which should be made on fully developed leaves, when the first fruit is fully developed.”
8.1 (b)	to read “observations which should be made on fully developed fruits before physiological maturity.”
8.1 (c)	to read “Observations on the fruits which should be made on fruits at physiological maturity.”
Ad. 24	illustration for state 2 to be amended to be flat
Ad. 37	arrows to be moved to correct place
Ad. 40	first table to be deleted and second table to be revised according to change in Table of Characteristics
8.	new section to be created for synonyms for example varieties. Example variety “Futsu Kurokawa” to have the synonym “Futsu black”.
9.	additional literature to be provided
TQ 1.2	“Butternut” to be deleted
TQ 1 (NB)	explanation of species to be deleted
TQ 5.2	to be deleted
TQ 7.3	to read “A representative color photograph of the fruit of the variety should accompany the Technical Questionnaire.”
TQ 9.3	to be deleted

Dock (document TG/RUMEX(proj.1))

49. The subgroup discussed document TG/RUMEX(proj.1) in the absence of the leading expert and agreed the following:

Cover page	to consider whether to limit the coverage to *Rumex acetosa* L. (Garden sorrel)
2.3	“and 20 panicles” to be deleted
3.3.3	to be deleted
3.4.2	to delete current text and to read “Each test should be designed to result in at least100 plants, which should be divided between two or more replicates.”

3.5	to specify 40 plants instead of 20 plants
4.2.2	to read “The assessment of uniformity should be according to the recommendations for cross-pollinated varieties in the General Introduction.”
Table of Chars.	to check which characteristics to observe in the first and second years and to revise the headings and the order of the characteristics accordingly and to consider adding notes (a) and (b) to indicate in which year to observe the characteristics
Char. 1	to read “Plant height” and to be indicated as MG/VG
Char. 2	to be indicated as MG/VG
Char. 3	to read “Plant: attitude”
Char. 4	to read “Plant: number of propagules” and to have the states: few (3), medium (5); many (7).
Char. 5	to read “color” instead of “coloration” and to be indicated as VG
Char. 6	to read “Stem: shape in cross-section”, to be indicated as PQ and to have (+) to be added with illustration. Order of states to be oval (1); round (2); rectangular (3); polyhedral (4)
Char. 7	to read “Stem: pubescence”, with the states: absent or very weak (1); weak (2); strong (3) and to check state of expression of example variety “Odesckiy 17”.
Char. 8	to be deleted
Chars. 9 to 12	to replace “caulis” with “stem”
Char. 9	to be indicated as MS/VG
Char. 10	to be indicated as MS with the states: few (3); medium (5); many (7)
Char. 11	to be indicated as VG
Char. 12	to be indicated as VG with the states: light (3); medium (5); dark (7)
Char. 13	to be indicated as MS/VG and to read “Rosette leaf: length”
Char. 14	to be indicated as MS/VG and to read “Rosette leaf: width”. (+) to be added.
Char. 15	to be indicated as MS/VG and to read “Rosette leaf: ratio width/length”. (+) to be added.
Char. 16	to be divided into two QN, VG characteristics: (a) “Rosette leaf: undulation of margin” with the states: absent or weak (1); medium (2); strong (3) (b) “Rosette leaf: incision of margin” with the states: entire or weakly incised (1); moderately incised (2); strongly incised (3)
Char. 17	to be indicated as MS/VG and “first year of growing” to be deleted
Chars. 18, 19, 22	to be indicated as MS/VG and “on caulis” to be deleted

Char. 20	to be indicated as QN, MS and "on caulis" to be deleted
Char. 21	to be divided into two QN, VG characteristics: (a) "Leaf: undulation of margin" with the states: absent or weak (1); medium (2); strong (3) (b) "Leaf: incision of margin" with the states: entire or weakly incised (1); moderately incised (2); strongly incised (3)
Char. 23	to be indicated as QN, VG. To read " Leaf: surface" with the states: smooth or slightly rough (1); moderately rough (2); very rough (3).
Char. 25	to be indicated as MS and to read "Time of panicle emergence"
Char. 26	to be indicated as MS/VG and to read "Plant: number of flowering stems"
Char. 27	to be indicated as QN, MS and to read "Time of flowering"
Char. 28	to be indicated as VG and to read "Inflorescence: type"
Char. 29	to be indicated as MS/VG
Char. 30	to be indicated as VG. to read "Inflorescence: color" and state 1 to read "greenish pink"
Char. 31	to be indicated as MS/VG and to read "Flowering stem: length". (+) to be added.
Char. 32	to be indicated as MS and to read "Time of ripening"
Char. 33	to be deleted
Char. 34	to be deleted
Char. 35	to be indicated as VG and to read "Seed: intensity of brown color"
Char. 36	to be indicated as VG and to read "Seed: glossiness"
Char. 37	to be indicated as MS and to read "Seed: 1000 kernel weight"
Char. 38	to be indicated as VG and to read "Roots: branching" or to read "Roots: number of branches" with the states: few (3); medium (5); many (7)
Char. 39	to be deleted
8.	all measurements in brackets to be deleted
Ad. 20	to be deleted and (+) to be deleted from Char. 20

Husk Tomato

50. The subgroup discussed document TG/HUSK(proj.4), as presented by Mr. Salvador Montes-Hernández (Mexico), and agreed the following:

Cover page	(a) leading expert to request GRIN to amend its database to indicate *Physalis ixocarpa* Brot. as the botanical name; (b) to add *Physalis philadelphica* Lam. as an alternative botanical name and to add common names found in GRIN database

1.	"(Syn: *Physalis philadelphica* Lam.)" to be deleted
2.3	to add "or at least 7,500 seeds"
3.4.1	to read "Each test should be designed to result in a total of at least 60 plants which should be divided between at least 2 replicates."
4.2.2	to read "For the assessment of uniformity of cross-pollinated varieties, a population standard of 3% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 60 plants, 4 off-types are allowed."
4.2.3	to read "For the assessment of uniformity of hybrids, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 60 plants, 3 off-types are allowed."
Table of Chars.	Example variety "Chapingo" to be changed to "CHF1 Chapingo" throughout
Char. 1	to be indicated as VG
Char. 2	to be indicated as VG
Char. 3	to be indicated as QN and to have note (e). To have the states 1, 3, 5. Example variety for state 1 to read "Tamazula SM3".
Char. 4	to be indicated as MS/MG with note (e). To read "Stem: height at first branching" and state 7 to read "tall".
Char. 5	to be indicated as MS/MG with note (e)
Chars. 6 to 10	to be indicated as VG
Char. 10	to have the states: narrow ellipse (1); medium ellipse (2); broad ellipse (3); cordate (4)
Char. 13	to have the states: absent or weak (1); medium (2); strong (3)
Char. 14	example variety to be provided for state 2
Char. 16	to be indicated as VG
Char. 17	to be indicated as QN, VG. State 2 to read "intermediate"
Char. 19	to be indicated as VG
Char. 20	to have the states: erect (1); semi-erect (2); horizontal (3); semi-drooping (4); drooping (5)
Char. 21	to be indicated as VG
Char. 22	to be indicated as QL, VG
Char. 23	to be indicated as VG
new (after Char. 24)	to read "Flower: diameter", with the states: small (3); medium (5); large (7). To be indicated as QN, VG/MS and to have note (c)
Char. 28	(+) to be deleted
Char. 29	to be indicated as VG and to have the states: oblate (1); circular (2); cordate (3); triangular (4); square (5)

Char. 30	to be indicated as VG and to have the states: elliptic (1); circular (2); angular (3)
Char. 31	to be indicated as QN, VG. State 1 to read “absent or very shallow”
Char. 33	to be indicated as VG. To read “ Fruit: main color (at harvest maturity)” with the states: white (1); green (2); yellow (3); orange (4); purple (5)
Char. 34	to be indicated as VG. To read “ Fruit: intensity of main color (at harvest maturity)” with the states: light (1); intermediate (2); dark (3).
Char. 35	to be indicated as VG. To read “ Fruit: main color (at physiological maturity)” with the states: white (1); green (2); yellow (3); orange (4); purple (5). Example varieties to be provided.
Char. 36	to be indicated as QN, VG. To read “ Fruit: intensity of main color (at physiological maturity)” with the states: light (1); intermediate (2); dark (3).
Char. 37	to be indicated as VG and to have the states: white (1); yellow (2); greenish yellow (3); green (4); purplish green (5), purple (6). Example varieties to be provided.
Char. 39	to be indicated as QN and to have the states: widely open (1); slightly open (2); fully enclosed (3)
Char. 40	to be deleted
Char. 41	to be indicated as QN, VG. State 1 to read “absent or very weak”
Char. 43	example varieties to be provided
Char. 45	example varieties to be provided
Char. 46	to read “Peduncle: thickness at fruit end” and example varieties to be provided
Char. 47	to be indicated as QN and (+) to be added with an explanation of how to measure. State 7 to read “firm”.
Char. 48	(+) to be added with an explanation of how to measure. To replace “texture” with “density” and to have the states: low (3); medium (5); high (7).
Char. 49	example varieties to be provided
Char. 50	state 1 to read “whitish yellow” and state 5 to be deleted
Char. 51	to be indicated as QN, VG
Chars. 52, 53, 54	to be indicated as QN, MG
Char. 55	to be deleted
Char. 56	to be indicated as MG and (+) to be added with an explanation of how to observe

8.1 (a) to (d)	to read as follows: (a) Characteristics which should be examined on the seedling. (b) Characteristics which should be examined at flowering (see Ad. 52). For flower measurements, take at least one of the first three nodes (Fig. 1). (c) Characteristics which should be examined at harvest maturity (see Ad. 53). For these measurements, take at least one of the first three nodes (Fig. 1). (d) Characteristics which should be examined at physiological maturity (see Ad. 54). For these measurements, take at least one of the first three nodes (Fig. 1).
8.1 fig. 1	to be replaced by illustration provided at the TWV session
Ad. 10	to use illustration provided at TWV session
Ad. 28	to be deleted
Ad. 52	to read "The time of flowering is when half of the plants have at least one open flower."
Ad. 53	to be provided and agreed by correspondence
Ad. 54	the time of physiological maturity is when the seed color changes from white to another color.
9.	to add the literature provided at the TWV session
TQ 6	example to read "Fruit: main color (at physiological maturity) / yellow / orange
TQ 7.3	to read "A representative color photograph of the fruit of the variety should accompany the Technical Questionnaire."

The representative of ISF considered that there were too many characteristics for the number of varieties of common knowledge.

Maize (Revision)

51. The subgroup discussed documents TWV/40/9 and TG/2/7(proj.1). In the absence of the leading expert and because important matters such as electrophoresis and parent lines still had to be considered by the TWA, an expert from France proposed to defer a full discussion of the Test Guidelines until after the TWA session. For that reason, the TWV restricted its comments to the characteristics specifically concerning sweetcorn varieties on the basis of the comments in the end notes in document TG/2/7(proj.1). The subgroup proposed the following in that regard:

4.1	to indicate that, for sweetcorn F1 hybrid varieties, the DUS examination should be undertaken on the hybrid and not on the parent lines using the hybrid formula approach
Char. 24 (a)	to be deleted
Chars. 24(b), 28, 28(a), 29	to be included as a characteristic for sweetcorn varieties only, or if such a division is not possible, to be included as a non-asterisked characteristic

Char. 29	to read "Only sweetcorn varieties: Ear: number of grain colors"
Char. 29(b)	to retain with an indication to be observed at growth stage 75
Char. 29(c)	to check the discriminating power of the characteristic
Char. 29(d)	to retain with an explanation to observe in the middle part of the ear
Char. 29(e)	to check if this characteristic could be used to clearly identify sweetcorn varieties
Chars. 31, 32	to be indicated as "Only non-sweetcorn varieties: …"

Onion, Shallot (Revision)

52. The subgroup discussed document TG/46/7(proj.1), as presented by Mr. Kees van Ettekoven (Netherlands), and agreed the following:

Title	to delete the first *Allium cepa* L. and to replace the UPOV Code ALLIU_CEP with ALLIU_CEP_CEP, ALLIU_CEP_AGG and ALLIU_OSC, which correspond *Allium cepa* (Cepa Group), *Allium cepa* (Aggregatum Group) and *Allium oschaninii* O. Fedtsch respectively
Sec. 1	to read: "These Test Guidelines apply to all seed and vegetatively propagated varieties of *Allium cepa* L (Cepa Group); Onion and Echalion, *Allium cepa* L (Aggregatum Group); Shallot and *Allium oschaninii* O. Fedtsch; grey shallot and hybrides between *A. cepa* and *A oschaninii"*.
Sec. 2.3	the minimum quantity for vegetatively propagated varieties should be 200 bulbs
Sec. 3.5	to read: "Unless otherwise indicated, in the case of cross-pollinated and hybrid varieties all observations should be made on 60 plants or parts taken from each of 60 plants, in the case of vegetatively propagated varieties, all observations should be made on 40 plants or parts taken from each of 40 plant."
Sec. 4.2 (a)	to be replaced with the standard wording concerning the uniformity of cross pollinated varieties
Sec. 4.2 (b)	to read: "For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 40 plants, 2 off-types are allowed."

Sec. 6.5 (2)	Differentiation between onion and shallot: to read: O-onion/echallion; S-shallot/grey shallot; The fifth paragraph should be replaced by the following: "In cases of varieties falling between classes 3 and 5 for characteristic 27, they should be compared with onion and shallot groups. As far as naming of group is concerned, there must be an exchange of results and plant material where appropriate between testing authorities to try and reach a conclusion."
Ch. 4	to insert the state "very light" with the example variety "Bretor (S)"
Ch. 5	to delete the asterisk; the states of expression to be replaced by "weak (1)", "moderate (2)" and "strong (3)"; the example varieties to be reallocated by Spain
Ch.6.1	to delete the indication (O) from the example varieties
Ch. 6.2	to delete the indication (S) from the example varieties
Ch. 7.1	to delete the indication (O) from the example varieties
Ch. 7.2	to delete the indication (S) from the example varieties, to insert the example variety "Lyska" to state 7
Chs. 8, 9	to delete the indication (O) from the example varieties
Ch. 10.1	to be numbered 10
Ch.10.2	to be numbered 11; to read: "Vegetatively propagated varieties only (including the replanted bulbs harvested from seed-propagated varieties): Bulb: degree of splitting into bulblets, with the states of expression "absent or very weak (Cuisse de Poulet du Poitou (O))", " weak (Atlas (S)", medium (Sante(S))", "strong" and "very strong (Giselle (S))"
Ch. 11	to be deleted
Ch.12.1	to insert the example variety "Lagos" to state 5
Ch.12.2	to delete the indication (S) from the example varieties
Ch.13.1	to include the states of expression "very short" with an example variety to be provided by France and "very tall" with the example variety "Cuisse de Poulet du Poitou"; to delete the indication (O) from the example varieties
Ch.13.2	to delete the indication (S) from the example varieties; the example variety "Matador" to be replaced by "Jermor", the example variety "Pesandor" to be added to state 9
Ch.14.1	to delete the indication (O) from the example varieties
Ch.14.2	to delete the indication (S) from the example varieties; to insert the example varieties "Primalys" to state 3 and "Arvro" to state 5
Ch. 15.1	to delete the indication (O) from the example varieties
Ch. 15.2	to delete the indication (O) from the example varieties; to insert the states of expression "very small" with the example variety "Rondeline" and "very large" with the example varieteis "Ploumor and Pesandor"

Ch.16	the state “toward apex” to be replaced by “toward top”; the example varieties “Dorata di Parma (O)” to be inserted to state 1 and the example variety “Jermor” to be inserted to state 3
Ch.18	the example varieties “Breton (S) to be inserted to state 2, “Vigarmor (S)” to be inserted to state 3, “Lagos (O)” to state 4, and “Arvro (S)” to state 5
Ch.19	to delete the indication (O) from the example varieties
Ch.20	to replace the example variety “Longor (S)” with “Bretor (S)”
Ch.24	to receive the limitation “Non-white varieties only”
Chs.29, 30, 31, 33, 34.1	to delete the indication (O) from the example varieties
Ch.34.2	to delete the indication (S) from the example varieties; to receive the example variety “Ploumor” for state 3
Ch.36	to receive an explanation in Section 8 to be provided by France, the states of expression to read: “absent or very weak, weak, strong”
Ad. 5	an additional picture to explain “cranking” to be provided by the expert from the United Kingdom
Ad. 27	new pictures to be provided by the expert from France
Ad. 28	the first sentence to read: “Dry matter content should be determined according to Section 3.5 (e.g. one sample of 20 bulbs from each plot).
TQ.1	to read: 1.1.1 Botanical name: *Allium cepa* (Cepa Group) 1.1.2 Common name: Onion, Echalion 1.2.1 Botanical name: *Allium cepa* (Aggregatum Group) 1.2.2 Common name: Shallot 1.3.1 Botanical name: *Allium oschaninii cepa* O. Fedtsch 1.3.2 Common name: Grey Shallot 1.4.1 Botanical name: other [please , specify] 1.4.2 Common name: other [please , specify]
TQ.4.2.(b)	to be deleted
TQ.5	to include Ch. 28; to delete the example variety “Ambition” from TQ 5.3-5.7
TQ. 7.2.2	to be deleted
TQ. 9.3	to be deleted

Pea (Revision)*

53. The subgroup discussed document TG/7/10(proj.3), as presented by Mr. Niall Green (United Kingdom), and agreed the following:

Cover page	to add *Pisum arvense* L. as an alternative botanical name
Table of Chars.	translations to be reviewed
Char. 2	to be deleted
Char. 3	(*) to be deleted
Char. 4	(*) to be added and to be indicated as MG/MS
Char. 11	to be deleted
Char. 12	"average" to be deleted
Char. 16	(+) to be added with an explanation that distance refers to the absolute distance
Char. 18	to be deleted
Char. 21	to add "(surface area)"
Char. 23	to be deleted
Char. 24	to read "Stipule: lobe below axil" and to add state 1: absent or very short. To be indicated as MS/VG
Chars. 25, 26	"(on the whole plant)" to be deleted
Char. 34	state 1 to be deleted. Example variety "Picar" to be deleted from state 2
Char. 37	spelling of "acuminate" to be corrected
Char. 41	to be indicated as MS and to have the states: absent or few (1); medium (2); many (3). (+) to be added with an explanation of how the characteristic is calculated on the basis of averages across plants
Char. 45	to read "Only varieties without entire parchment: Pod: thickened wall"
Char. 47	to be deleted
Char. 49	to be deleted
Char. 50	to be replaced by a characteristic for type of curvature, similar to that used for bean
Char. 54	to be deleted
Char. 55	to be deleted
Char. 56	to be indicated as growth stage 226. (+) to be added with an explanation that the characteristic concerns the number of ovules and not the number of seeds.
Char. 58	(+) to be added with illustrations
Char. 60	explanation to provide illustrations of different types of dimples and wrinkles

Char. 61	to delete underlined section. To check example varieties "Adagio" and "Zorba"
Char. 66	to have the states: not colored (1); colored (2)
Ad. 3	to read "The expression of fasciation is more clearly expressed in longer daylengths." and to provide an illustration
Ad. 19, 20, 22, 23, 24	to be amended according to changes to the Table of Characteristics and, in particular, to explain that Char. 19 refers to the maximum length and to indicate that Char. 24 refers to the length of the lobe as measured perpendicular to the axis set by Char. 19.
Ad. 25, 26	to read "Assessment should be made on the main stem only. The presence of flecking on any stipule on the main stem means that flecking is present. It should be ensured that the foliage at the lowest nodes has not senesced before assessment. The plant should have at least eight nodes, since flecking in some varieties may not be expressed at lower nodes."
Ad. 27, 28	illustration to be amended to have a straight petiole
Ad. 48	to add titles for blunt and pointed illustrations
Ad. 58	second paragraph to be deleted
Ad. 62	to read "Record on dry, mature seed. Appears as irregular shallow dimpling of the cotyledon and is accompanied by a slight 'rippling' of the testa surface which should not be confused with wrinkling. The appearance of very fine dimpling, similar to that of a golf ball, should be ignored."

Pumpkin (Revision) (document TG155/4(proj.1))

54. The subgroup discussed document TG/155/4(proj.1), as presented by Mr. Malerotho D. Lekoane (South Africa), and agreed the following:

Cover page	(a) to add the following common names: Giraumon (French), Riesenkurbis (German), Zapallo, Calabaza (Spanish)
	(b) to reproduce the table of alternative names from TG/CUC_MOS: *Cucurbita moschata* and TG/119/4: Vegetable Marrow, Squash in the associated documents section
4.2.2	to read: "4.2.2 Hybrid varieties, inbred lines For the assessment of uniformity of hybrid varieties and inbred lines a population standard of 1 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 20 plants, 1 off-type is allowed."
5.3	to add Char. 19
Table of Chars.	to correct spelling of example variety "Marlborough Grey" (e.g. Char. 4)
Char. 1	state 1 to read "medium elliptic"
Char. 3	to be deleted

new (after Char. 4)	to read “Leaf blade: margin” with the states: entire or very weakly incised (1); weakly incised (2); moderately incised (3). (+) to be added with illustration. To be indicated as QN, VG.
Char. 6	to be deleted
Char. 12	“maximum” to be deleted. (+) to be added with an explanation to take the diameter from the broadest part.
Char. 13	“maximum” to be deleted
Char. 14	order of states to be 6, 1, 2, 3, 4, 9, 10, 11, 5, 7, 8. Example variety “Buttercup” to be replaced for state 5 if possible. State 3 to read “transverse broad elliptical” and state 10 to read “medium elliptical”
Char. 15	to be indicated as QN to read “Fruit : position of broadest part” with the states: towards stem end (1); at middle (2); towards blossom end (3). State 2: “the” to be deleted. Example variety to read “Rouge vif d’Etampes”
Char. 16	to replace “base” with “stem end”
Char. 17	to read “Only varieties with Fruit: profile of stem end: depressed: Fruit: depth of depression at stem end”. Example varieties to be provided.
Char. 18	to read “Fruit: profile of blossom end (flower scar included)”
Char. 20	to read “Fruit : distance between grooves” with the states: small (3); medium (5); large (7)
Char. 21	to read “Fruit : depth of grooves”
Char. 22	(+) to be added with an explanation that the main color is the color with the largest area over the whole fruit excluding the scar area and the secondary color is the color with the second largest area over the whole fruit excluding the scar area. Example variety to be provided for state 2.
Char. 23	example variety to be deleted from state 7
Char. 24	to be moved before Char. 22, to be indicated as PQ and to have the states: one (1: example variety “Gladiator”); two color intensities (with clear borders) (2: example variety “Giraumon Turban”); two color hues (3: example variety “Delica”); more than two color hues or intensities (with clear borders) (4: example variety “Turks Turban”).
Char. 25	to read “Only varieties with more than two color hues: …” and example varieties to be provided
new (after Char. 25)	to read “Only varieties with more than two color hues: Fruit: intensity of secondary color of skin” with the states: light (3); medium (5); dark (7). To be indicated as QN, VG.
Char. 26	to be indicated as PQ and to read “Only varieties with more than two color hues or intensities: Fruit: distribution of secondary color of skin” with the states: only patches (1); patches and stripes (2); only stripes (3)
Char. 27	state 4 to read “bullate”
Char. 28	to be indicated as PQ and state 1 to read “absent or very sparse”

Char. 30	to read "Fruit: diameter of flower scar". Example variety for state 7 "Crown Prince" and for state 9 "Turks Turban". Example variety "Buttercup" to be deleted for state 5.
Char. 31	state 1 to be deleted. Example variety "Uchiri Kuri" to be deleted from state 3 and to be checked for state 3.
Char. 32	to be deleted
Chars. 33, 34	to be moved before fruit characteristics
Char. 36	(3) to be deleted and to be indicated as QN. To check if the states could be: narrow elliptic (1); medium elliptic (2); broad elliptic (3). (+) to be added with a table of ratios.
Char. 37	to read "Seed: color of coat", with the states: white (1); cream (2); light brown (3). Example variety to be provided for state 2.
8.1	to read: "(a) observations which should be made on fully developed leaves, when the first fruit is fully developed." (b) and (c) to be combined and to read "Observations which should be made on fully developed fruit at maturity"
Ad. 18	illustration for state 2 to be improved
9.	further references to be added
TQ 1	"sources" to be deleted and key to be deleted
TQ 5.7	to be deleted
TQ 7.3	to read "A representative color photograph of the fruit of the variety should accompany the Technical Questionnaire.

Rockets (document TG/Rocket(proj.2))*

55. The subgroup discussed document TG/ROCKET (proj.2), as presented by Mrs. Chrystelle Jouy (France), and agreed the following:

General	to prepare two separate Test Guidelines, one to cover *Eruca* Mill. (E), and the other to cover *Diplotaxis* DC. (D).
(E)Ch.1	to be deleted
(E)Ch.2	to be deleted
(E)Ch.3	to read: "Leaf attitude", to receive (a)
(E)Chs.4 to 16	to receive (a)
(E)Ch.5	the state "grey green" to be deleted
(E)Ch.6	to read: "Leaf: intensity of color"
(E)Ch.8	to read: "Leaf: width"
(E)Ch.9	to be deleted

(E)Ch.10	to receive the state of expression “very strong” (note 9). Example variety “Highway” to be deleted from note 7. Example variety “Runway” to be added for note 9. Example varieties “Apollo and Aladin” to be checked by the expert from France
(E)Ch.14	to be deleted
(E)Ch.15	to be deleted
(E)Ch.18	to read: “Inflorescence stem: anthocyanin coloration”; the state 1 to read: “absent or weak”. (+) to be provided with an illustration
(E)Ch.19	to read: “Plant: height at flowering stage”
(E)Ch.20	the state of expression “pale yellow” to be replaced by “light yellow”
(E)Ch.21	“moderate” to be replaced by “medium”
(E)Ch.22	to be deleted
(D)Ch.1	to be deleted
(D)Ch.2	to be deleted
(D)Ch.3	to read: “Leaf attitude”, to receive (a)
(D)Ch.4	to be deleted
(D)Chs.5 to 12	to receive (a)
(D)Ch.5	the state “yellow green” to be deleted
(D)Ch.6	to read: “Leaf: intensity of color”
(D)Ch.8	to read: “Leaf: width”
(D)Ch.9	to be deleted
(D)Ch.12	to receive condensed states of expression: absent or weak (1), medium (2), strong (3)
(D)Chs.13 to 16	to be deleted
(D)Ch.18	to read: “Inflorescence stem: anthocyanin coloration”; the state 1 to read: “absent or weak”. (+) to be provided with an illustration
(D)Ch.19	to read: “Plant: height at flowering stage”
(D)Chs.20 to 22	to be deleted
Chap.8.1	to add: (a): All observations on the leaf should be made on the rosette before the appearance of inflorescence.
Ad. 10, 11, 12	new illustration to be provided
Chap.9	Further references to be provided
TQ.1	separate boxes to be prepared for *Eruca* Mill. and *Diplotaxis* DC.
TQ.4.2.1	to delete “(a) Self-pollination”
TQ.4.2	Questions in relation to hybrid varieties to be deleted
TQ.5.3	to be checked by the expert from France

TQ.9.3	to be deleted

Rosemary (document TG/ROSEMARY(proj.3))

56. The subgroup discussed document TG/ROSEMARY (proj.3)), presented by Mr. Niall Green (United Kingdom) in the absence of the leading expert Mr. Baruch Bar-Tel (Israel), and agreed the following:

Sec. 1	to ask the leading expert whether the Test Guidelines should cover all varieties of *Rosmarinus officinalis* L.
Sec. 2.3	the minimum number of material to be 6 young plants; the precise stage development of material to be supplied should be precisely defined
Sec. 3.1	the minimum duration of tests should be one growing cycle, if these test guidelines apply only to vegetatively propagated varieties
Sec. 3.4.1	Each test should be designed to result in a total of 6 plants.
Sec. 3.5	to read: "Unless otherwise indicated, all observations should be made on 6 plants or parts taken from each of 6 plants. For characteristics involving measurement of individual parts of plants (MS), 2 parts of each of 6 plants should be taken.
Sec.4.2.2	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 6 plants, one off-type is allowed."
Sec.5.2 (d)	to read: Flower: intensity of main blue color (characteristic 20)
Ch.1	to receive explanation in Section 8
Ch.5	QN to be replaced with PQ
Ch.6	to delete (average of 20 cm); to receive explanation in Section 8
Ch.10	the states of expression to read: "absent or weak", "moderate" and "strong"
Chs. 17, 18, 21	to receive explanation in Section 8
Chs.28, 30	the way of expression QL to be checked by the leading expert, as these characteristics could have quantitative expressions
Chs.29 to 31	to ask the leading expert why all three style characteristics should be included
Chs.35 to 44	to endorse the proposal to delete these characteristics

Spinach (Revision)

57. The subgroup discussed document TG/55/7(proj.1), as presented by Mr. Kees van Ettekoven (Netherlands), and agreed the following:

Sec.3.4.1	to delete the words “200 drilled plants and/or”
Sec.4.2.1 (b)	to delete the word “F1”; to delete the 4th sentence
Ch.1	to receive an explanation in Section 8.2; to replace the example varieties “Bergola, Subito” by “Breedblad Scherpzaad”
Ch.2	to delete the example varieties “Beta” and “Subito”
Ch.3	to deleted the example varieties “Virtuosa, Subito, Trinidad, Wobli” and add the example varieties “Monet, Viroflay, Winterreuzen” for state 3, “Imola, Nores” for state 7 and “Mystic” for state 9
Ch.4	to delete the example varieties “Prince, Vital, Beta, Martine, Bloomsdale and Longstanding” and to add the example varieties “Matador” for state 1, “Tarpy” for state 3, “Mystic, Koala” for state 5, “Giraffe” for state 7 “Revolver, Menorca” for state 9
Ch.5	to receive an explanation in Section 8.2 to be provided by the Netherlands; to delete state 9; to delete the example variety “Tamara”; to add the example varieties “Giraffe” for state 3, “Mystic” for state 5, “Parrot” for state 7
Ch.6	to delete the example varieties “Bloomsdale, Longstanding, Prince, Subito”; to add the example varieties “Grappa” for state 1, “Parrot” for state 3
Ch.7	to add the example varieties “Imola, Mystic” for state 3, “Giraffe” for state 5, “Grappa” for state 7
Ch.8	to delete the example varieties “Prince, Subito, Comte”; to add the example varieties “Grappa Rhythm” for state 3, “Mystic” for state 5, “Giraffe” for state 7
Ch.9	state 1 to read: “medium elliptic”; to delete the example varieties “Ass, Comte, Prince”; to add the example varieties “Giraffe” for state 3, “Grappa” for state 6
Ch.10	to delete the example varieties “Estivato, Ass; to add the example variety “Imola” for state 3
Ch.11	to delete the example varieties “Prince, Subito, Ass, Comte”; to add the example varieties “Grappa” for state 1, “Imola, Nores” for state 3
Ch.12	to delete the example variety “Ass”; to add the example varieties “Mystic” for state 2, “Grappa, Lazio” for state 3
Ch.13	to read: “Plant: proportion of monoecious plants”; to replace VG by VS; to delete the example varieties “Ass, Comte, Spencer, Beta, Trinidad”; to add the example varieties “Figo” for state 5, “Giraffe, Lazio” for state 7

Ch.14	to read: “Plant: proportion of female plants”; to replace VG by VS; to delete the example varieties “Trinidad, Beta, Comte, Spencer”; to add the example varieties “Giraffe” for state 3, “Figo” for state 5, “Parrot” for state 7
Ch.15	to read: “Plant: proportion of male plants”; to replace VG by VS; to delete the example varieties “Beta, Trinidad, Ass, Comte”; to add the example variety “Parrot” for state 1
Ch.16	to read “Time of start of bolting (for spring sown crops, 15%of plants)”; to replace VG by MG, to remove the (b); to receive an explanation in Section 8.2 to be provided by the Netherlands; to delete the example varietids “Subito, Wobli, Spencer”; to add the example varieties “Figo” for state 1, “Bandola, Viroflay” for state 3, “Matador” for state 5, “Grappa, Revolver” for state 7
Ch.16	after this characteristic a new characteristic to be added to read: “Seed: spines (to be observed at harvest time of seed) (QL, VG) with the states of expression “absent (1), present (9)” with example varieties to be provided by France and an explanation in Section 8.2 to be provided by the Netherlands
Ch.17.2	to read: “Race Pfs:2”
Ch.17.9	to be deleted
Sec. 8.1 (b)	to be integrated to the explanation under Ad. 13 + 14 + 15
Ad. 8	the drawing of state 7 to be improved
Ad. 13 + 14 + 15	the reference to the characteristics to be corrected
Ad. 17	to be improved by the Netherlands
TQ. 5.3.	to include characteristics 17 and 18
TQ.7.1	(a) and (b) to be deleted

St. John’s Wort

58. The subgroup discussed document TG/HYPER-PER(proj.1), as presented by Mrs. Heidemarie Heine (Germany), and agreed the following:

Cover page	to insert the additional English common names “Tipton weed, Klamath weed, Goat weed, Common St. John’s wort”
Sec.2.3	the minimum quantity of plant material to be 5g
Sec.3.4.1	the total number to be 60 plants
Sec.3.5	to read: “Unless otherwise indicated, all observations should be made on 20 plants or parts taken from each of 20 plants.

Sec.4.2	the paragraph 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 60 plants, 3 off-types are allowed.”
Sec. 5.3	characteristic 18 to be inserted as additional grouping characteristic
Ch.1	to be numbered as Ch.2; (a) to be replaced with (b)
Ch.2	to be numbered as Ch.1; (b) to be replaced with (a); the states of expression to read: “few (3), medium (5), many (7)”
Ch.3	to read: “Plant: distance between the highest and lowest flowers”; (a) to be replaced with (b)
Chs.4	(a) to be replaced with (b)
Chs.5,6	(b) to be replaced with (a)
Ch.7	the word “strong” to be replaced by “long”; (b) to be replaced with (a); to insert a (c)
Ch.8	(b) to be replaced with (a); to insert (c)
Ch.9	to read: “Leaf blade: ratio width/length; (b) to be replaced with (a); to insert a (c)
Ch.9	after this characteristic a new characteristic to be inserted reading: “Leaf blade: intensity of green color (VG,QN) with (a) and (c), with the states of expression “light (3), medium (5), dark (7), to which example varieties to be provided by Poland
Ch.10	to read: “Leaf blade: number of translucent oil glands” with the states of expression “few (3), medium (5), many (7)”; (b) to be replaced with (a); to insert a (c)
Chs.11,12, 13,14	(a) to be replaced with (b)
Ch.15	to read: “Flower: intensity of yellow color (QN)” with the states of expression “light (1), medium (2), dark (3)”; (a) to be replaced with (b)
Ch.16	(a) to be replaced with (b)
Ch.17	to receive an explanation in Section 8.2
Ch.18	to receive an explanation in Section 8.2
Sec.8.1 (a)	to be numbered as (b)
Sec.8.1 (b)	to be numbered as (a)
Sec.8.1 (c)	to read: “All observations on the leaf should be made on leaves taken from the middle of the stem”
Ads. 3, 4	the explanation to read: “Observations should be made on the cut plants.”
Ad. 15	the explanation to read: “ Observations should be made at the beginning of the full flowering stage.”

UPOV Information Databases

59. The TWV considered document TWV/40/4 and noted that each member of the Union had an individual version of that document specifying the codes which it was requested to check. It was requested that any comments on the UPOV codes be sent to the Office by the end of September 2006.

Variety Denomination Classes

60. The TWV noted the report on developments provided in document TWV/40/5. The Chairman reported that there would be a Symposium on the Taxonomy of Cultivated Plants in the Netherlands from October 15 to 19, 2007. At the symposium it was planned to re-launch the International Association for Cultivated Plant Taxonomy which would ultimately take over the responsibility for reviewing and maintaining the International Code of Nomenclature for Cultivated Plants (ICNCP). It was noted that it would be important for UPOV to participate in that work to ensure harmonization with the UPOV guidance on variety denominations, where that was appropriate.

Project to Consider the Publication of Variety Descriptions

61. The TWV considered document TWV/40/6. It agreed with the key points for a list of criteria, as set out in paragraph 5 of the Annex to document TWV/40/6. With regard to paragraph 4 (c) of the Annex, it suggested that it should be clarified that there were only a small number of characteristics for grass varieties and that those characteristics were quantitative characteristics. A representative of ISF indicated that ISF would be in favor of open access to variety descriptions, but reported that ISF was also discussing whether it might be appropriate for access to be restricted to the breeder of the variety for a certain period, e.g. five years.

62. In accordance with paragraph 7(b) of document TWV/40/6, the TWV proposed to investigate the value of grouping, asterisked and other characteristics in Pea and Tomato in both a global and regional approach. It was agreed that France would act as the coordinator for work on Pea and the European Community, working in conjunction with its examination offices, would act as the coordinator for work on Tomato. The TWV also agreed that it would be useful to discuss the possibilities for ringtests prior to the revision of Test Guidelines and agreed to discuss that matter at its next session under this item.

Drafter's Kit for Test Guidelines (document TWV/40/7)

63. The TWV considered document TWV/40/7. It concluded that the current electronic template containing the additional standard wording worked well and that it would not be appropriate to seek to develop customized versions for the TWV or for certain crops. It noted that the discussions concerning the possible inclusion of a request for color photographs in the Technical Questionnaire had highlighted the need for care to be taken in selecting only appropriate additional standard wording. A representative of ISF requested that consideration be given to authorities providing photographs of varieties to the breeders. The TWV noted that this would have substantial resource implications and would require careful consideration.

Additional characteristics (documents TWV/40/8, TGP/5/1: Section 10/1)

64. The TWV considered documents TWV/40/8 and TGP/5/1: Section 10/1. It noted that the possibility for rapid revision of Test Guidelines meant that the need for a provision for additional characteristics could be very limited.

Information on COY and Off-Type Standards

65. The TWV considered documents TWV/40/10 and TWC/23/10. The Chairman noted that the influence of the environment could mean that different standards would need to be applied in different environments in order to set a comparable requirement for distinctness and uniformity. It was also noted that the choice of reference varieties would influence the requirements for distinctness and uniformity where COY was applied.

66. The TWV requested the TWC to request information on the standards for off-types for different types of plots.

Recommendations on Draft Test Guidelines

67. The TWV agreed that the following draft Test Guidelines should be sent to the TC for adoption at its forty-third session, to be held in Geneva in April 2007, on the basis of the following documents and the comments in this report:

Bitter Gourd (document TG/MOM(proj.1))
Carrot (Revision) (document TG/49/8(proj.1))
Cauliflower (Revision) (document TG/45/7(proj.1))
Cucumber, Gherkin (Revision) (document TG/61/7(proj.2))
Cucurbita moschata Duch. (document TG/CUC_MOS(proj.2))
Husk Tomato (document TG/HUSK(proj.4))
Onion, Shallot (Revision) (document TG/46/7(proj.1))
Pumpkin (Revision) (document TG/155/4(proj.1))
St. John's Wort (document TG/HYPER_PER(proj.1))
Spinach (Revision) (document TG/55/7 (proj.1))

68. It was noted that the leading experts would need to provide the information necessary for the completion of the Test Guidelines above by the date indicated in Annex IV. The Office would prepare the drafts for consideration by the Technical Committee on the basis of the comments in this report and the information to be provided by the leading experts. Where indicated in the comments in this report, the drafts would be circulated by the Office to the TWV for approval by correspondence before submission to the TC.

69. The TWV agreed to re-discuss the following draft Test Guidelines at its forty-first session:

Chamomile (Revision) (document TG/152/4(proj.1))
Dock (document TG/RUMEX(proj.1))
Diplotaxis DC. (document TG/ROCKET(proj.2))
Eruca Mill. (document TG/ROCKET(proj.2))
Maize (Revision) (documents TWV/40/9, TG/2/7(proj.1))
Pea (Revision) (document TG/7/10(proj.3))

Rosemary (document TG/ROSEMARY(proj.3))

70. It was agreed that it would be useful to hold a joint meeting of the TWA and TWV subgroups to discuss the draft Test Guidelines for Maize and for Pea. It was suggested that the TWA meeting in 2007 might be the most appropriate occasion for those meetings.

71. The TWV agreed that it should establish or revise Test Guidelines for the following:

Agaricus L. (new)

Beetroot (revision) (document TG/60/6)

Black radish (revision) (document TG/63/6)

Cardon (*Cynara cardunculus* L.) (new)

Chayote (*Sechium edule* (Jacq.) Sw.) (new)

Coriander (*Coriandrum sativum* L.) (new)

Cowpea (*Vigna angularis* (Willd.) Ohwi & H. Ohashi) (new)

Leek (revision) (document TG/85/6)

Radish (revision) (document TG/64/6)

Taro (*Colocasia* Schott) (new)

Yam. (*Dioscorea* L). (new)

72. The leading experts, interested experts and timetables for the development of the Test Guidelines, as set out in paragraphs 67 to 71, are summarized in Annex IV.

Future Program, Date and Place of the Next Session

73. At the invitation of the expert from Kenya, the TWV agreed to hold its forty-first session in Nairobi, from June 11 to 15, 2007.

74. The TWV proposed to discuss the following items at its next session:

1. Opening of the session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection
   (a) Reports from members and observers (oral reports by the participants)
   (b) Reports on developments within UPOV (oral report by the Office of the Union)
4. Molecular Techniques
   (a) Reports on developments within UPOV (oral report by the Office of the Union)
   (b) Reports on work by members and observers (oral reports by the participants)
5. TGP documents
6. UPOV information databases

7. Variety denominations
8. Project to consider the publication of variety descriptions
9. Discussion on draft Test Guidelines (Subgroups)
10. Recommendations on draft Test Guidelines (plenary)
11. Date and place of the next session
12. Future program
13. Report of the session (if time permits)
14. Closing of the session.

Visits

75. On Wednesday, June 14, 2006, the TWV visited the *Instituto Nacional de Investigaciones Forestales y Agropecuarias* (INIFAP), Experimental station in Bajío, where a tour of the husk tomato variety plots was followed by discussion on the draft Test Guidelines for Husk Tomato. The TWV then visited Sakata Seed Co., where it received a guided tour of the Capsicum field trials.

76. The TWV adopted this report at the close of the session.

[Annexes follow]

ANNEX I

LIST OF PARTICIPANTS

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[Annex II follows]

ANNEX II

Speeches at the Opening of the Session, June 12, 2006

Speech of Mr. Francisco Javier Mayorga Castañada, Minister for Agriculture, Animal Husbandry, Rural Development, Fishing and Food

Mr. Nieto, Governor of Guanajuato,
Mr. Niall Green, Chairman of the TWV,
Mr. Button, Technical Director of the International Union for the Protection of New Varieties of Plants (UPOV),
Ladies and Gentlemen,

It´s a pleasure to be here today in the opening of this important meeting. I am sure, that it will bring on important benefits to Mexico's Agriculture, as well as, to other countries.

It's a great honor for Mexico to host the TWV meeting and to have experts and authorities form fifteen countries, along with representatives from several International Organizations. From our country, we have participants from different research and universities and seed companies.

In Mexico, we recognize UPOV's outstanding job, in relation to the Protection of New Varieties of Plants, because beyond their specific mission, they promote the cooperation between countries.

For our country, the agreements and recommendations generated by UPOV are essential for the Protection of plant Breeder's rights and consequently provide legal certainty in the technology transfer of Plant Varieties.

Mexico's participation in UPOV's Technical Working Parties, like the TWV, is highly important, due to the experiences and information shared with the Plant Variety Experts and Examiners and because in these meetings it is defined if a candidate Variety is feasible to grant a Breeder Certificate, due to its characteristics.

The discussion of sixteen Technical Guidelines, particularly for maize, pumpkin and husk tomato, is of great importance for our country because Mexico is the center of origin and diversity of these crops.

Undoubtedly, our experts, led by the National Service of Inspection and Certification of Seeds (NSICS) in collaboration with INIFAP and Chapingo University, will participate actively in the revision of the guides mentioned before.

In the last two years, the SNICS which is the body responsible for the implementation of the protection system of plant breeder's rights, has been strengthened. As a result of this, SNICS has reduced the time to grant a breeder's certificate. This would not have been possible without the cooperation and support of international register offices and Mexican Research Institutions. This has been a key fact for success in this issue and is reflected in the actively participation of experts in the Technical Working Parties.

The breeding in order to obtain new and improved varieties benefits the producers and implies time and a great investment of human and financial resources. Thus, for Mexico, the Breeder's acknowledgement is fundamental as an incentive for research and technology transfer.

We are convinced that breeders' legitimate recoup and recognition for their research and improvement represents an incentive to keep on working hard in benefit of agriculture.

It is our aim to keep on promoting research carried out in our public institutions in order to support and offer new proposals within UPOV's meetings.

Finally, I would like to recognize UPOV's leadership, bearing in mind that the agriculture whose basis is research and scientific knowledge assures a promising future in benefit of society.

Thank you very much for your attention.

Speech of Mr. Francisco Lopez Tostado, Vice-Minister for Agriculture, Animal Husbandry, Rural Development, Fishing and Food

Ten years ago (1996) it was issued The Mexican Law for the protection of the Plant Breeder's rights, with the purpose to give to the breeders, the legal and moral recognition to use and exploit the variety as an exclusive right, with the aim to encouraging the development of new varieties of plants. This law, whose interpretation and application corresponds to The Ministry of Agriculture, Animal Husbandry, Rural Development, Fishing and Food, is based under the following principles:

Protection under UPOV principles in accordance with 1978 UPOV's Act. Protection to all genus and species.
The Breeder provides the information for granting the protection.
The establishment of a Plant Variety Committee in charge of assessment of Distinctness, Uniformity and Stability (DUS) of the candidate plant varieties. The committee is aided by Technical Support Groups consisting of specialists for each genus or species.

Mexico ratified the 1978 Act in July 9, 1997 and become in the 34th member in August 9, 1997. Nowadays we have a new draft with some amendments to the Federal Law, according UPOV 1991 Act.

Since then, Mexican experts from different academic Institutions have participated in UPOV Technical Working Parties (TWP's), through collaborative agreements between the National Service of Inspection and Certification of Seeds (SNICS) and Academic Institutions. SNICS is a dependent body of the Ministry of Agriculture in charge of coordinating the issues related to Plant Breeder's Rights.

Due to the highly specialized and technical conditions required to carry out the Protection of Plant Varieties and because the Mexican Law foresees the Plant Variety Protection of any genus and species; it was necessary to have the support of highly qualified and experienced experts in order to analyze the morphological, physiological, biochemical, molecular and statistical data.

Since 1995, Technical support groups (similar to UPOV TWP's) act as qualified experts in plant varieties. They give their opinion in relation to any plant variety and the Distinctness, Uniformity and Stability requirements. These groups give the technical support to the Plant Variety Committee.

The chairpersons of these technical groups as well as species experts have been participating in UPOV's TWP's since 1997. Their expertise in these issues has increased through the interchange between experts and authorities, strengthening the National capacity in the Varieties' characterization and DUS testing.

In relation to TWV, Ph.D. Salvador Montes INIFAP researcher, has wide experience in vegetables and nowadays coordinates Husk Tomato characterization projects.

As a result of this, some technical guidelines of Mexican species like Husk Tomato (Physalis) have been proposed. The guide mentioned before is the result of the participation of different experts from different Mexican Institutions like: Postgraduated College on agricultural sciences, Chapingo University, Guadalajara University, Baja California University and INIFAP. When this Technical Guideline is approved, it will be the basis for the register of new varieties of

plants for all the UPOV members, under a harmonized procedure to offer legal certainty to grant the protection.

In a parallel way, the Minister of Agriculture has supported the collecting for ex situ conservation, characterization and evaluation of Husk Tomato, to preserve the megadiversity of Mexico genetic resources, as source of the plant breeding.

The principles and criteria of the Technical Guidelines have allowed us to apply them not only for Plant Breeder's rights but also in the register and seed certification, where the plant variety description is required. It is the case of varieties of common knowledge like Opuntia, Tigridia, Sprekelia, Tagetes and Agave tequilana var. Azul.

Mexico's participation in the several UPOV bodies has resulted of great importance, not only because in these meetings criteria, methodology and characteristics are defined, and they must be taken into account in order to register plant varieties. The exchange of experiences and information with the Plant Variety Experts, Examiners and authorities of the Register Offices, has contributed to the capacity building in these matters; some results are the election of Mexican delegates for the Presidency of the UPOV Council, and for the Technical Working Party on Fruit Crops (TWF). We are very pleased about this privilege, but also be a sign of the commitment of our country to promote the innovation and technology transfer for the benefit of agriculture.

Hence, it’s a pleasure for all of us to host the TWV meeting here in Guanajuato. Guanajuato stands out for the production of broccoli, onion, hot chilly pepper, garlic, husk tomato, carrot, cauliflower and lettuce among others.

Finally, I would like to thank the collaboration of different Institutions who helped in the organization of this event: Mexican Seed Association (AMSAC); Mexican Association for the Intellectual Property (AMPPI); Postgraduated College on agricultural sciences; Chapingo, Guadalajara and Guanajuato Universities; Syngenta, Seminis and Sakata Companies; Guanajuato Government; INIFAP, SNICS, and the Guanajuato Delegation of the Ministry of Agriculture.

Opening statement of Mr. Francisco Javier Mayorga Castañada, Minister for Agriculture, Animal Husbandry, Rural Development, Fishing and Food

As the Minister of Agriculture, Animal Husbandry, Rural Development, Fishing and Food, it is an honor today, Monday June 12, 2006. to declare open the fortieth session of the Technical Working Party for Vegetables (TWV) for the protection of new varieties of plants.

I am sure that the topics to be seen will provide the opportunity to exchange experiences and relevant information that will allow us to promote research in breeding and agricultural techniques in order to guarantee leadership in plant variety.

Congratulations and have a successful meeting.

[Annex III follows]

PLANT BREEDERS' RIGHTS IN MEXICO

Background

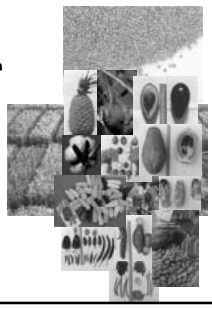
SNICS -Minister of Agriculture (SAGARPA)
-Created by Seed Law (1961)
-Autonomy 1996

Mission

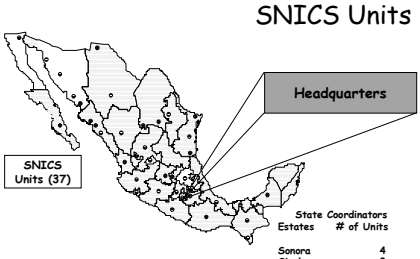
To establish and keep update the system to regulate and promote seed, plant varieties and genetic resources matters, to contribute to increase agricultural production and proficiency, according to international standards.

Subjects

- Seed inspection and certification
- Plant breeders rights
- Plant Genetic resources (PGR)



SNICS Units



State Coordinators Estates	# of Units
Sonora	4
Sinaloa	3
Tamaulipas	3
Chihuahua	2
Chiapas	2

Seeds

Main Activities

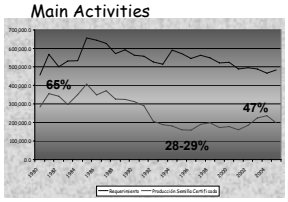
Verify regulations (Seed Law, 1991)

ISTA: 90's
2003: LANAR
2005-2007: EC-member)

OECD: 2002
(Vegetables/Mz-Sg/Cereals /Grasses-legumes/Crucifers and OF's

Seeds

Main Activities



- Seed testing and certification and analysis of
- Catalog of Varieties (certification purposes)

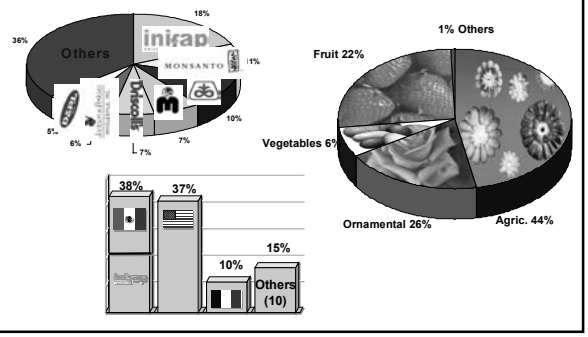
- Varieties registry (TG)
- Common knowledge & PD
- Certification purposes
- Reference of novelty
- Non-value test

Plant Breeders Rights

- PVP Law (1996)
- 1978 Act (UPOV member since 1997, #34)
- Protection all genera and species
- Information provided by the own breeder
- Cooperation CPVO, FR, NL (DUS testing results)
- Plant Variety Committee
  - ? technical supporting groups
  - specialists for each genus or species
  - agreements between SNICS and several research and academic institutions
- Reference collections: agricultural crops, Opuntia, avocado and shortly, rose.

Plant Breeders Rights

PBR's Applications



UPOV- Mexico

- TWP's Venue: TWA (2001), TWC (2002), TWV (2006)
- Presidency of the Council (2003-2006)
- TWF Chairperson 2006-2008
- Collection of reference (husk tomato, PO; amaranth, HU, BR)
- Test Guidelines: cactus pear (nopal), avocado, dahlia, tagetes (cempasúchil), husk tomato, amaranth, papaya, hawthorn (tejocote), dragon fruit (pitahaya)…
- Distance learning (tutors), workshop COYD-COYU

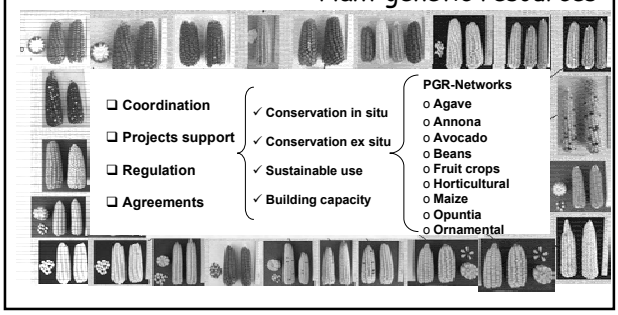
Training

Graphic Handbooks

Currently Actions

- Law amendments
  - ❖ Seed law (harmonization and updating, stronger commerce regulations)
  - ❖ PVP law (according 1991 Act)
  - ❖ PGR law (draft)
- Strengthen and building capacity

Plant genetic resources



- ❑ Coordination
- ❑ Projects support
- ❑ Regulation
- ❑ Agreements

- ✓ Conservation in situ
- ✓ Conservation ex situ
- ✓ Sustainable use
- ✓ Building capacity

PGR-Networks

- o Agave
- o Annona
- o Avocado
- o Beans
- o Fruit crops
- o Horticultural
- o Maize
- o Opuntia
- o Ornamental

Thank you!

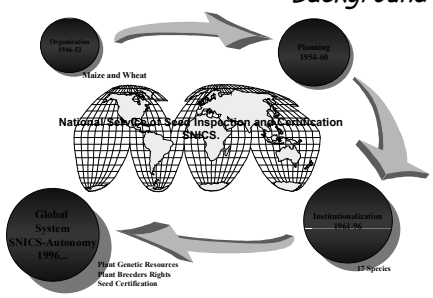
http://www.sagarpa.gob.mx/snics

enriqueta.molina@sagarpa.gob.mx

We hope you have enjoyed your stay in Mexico!

Servicio Nacional de Inspección y Certificación de Semillas

Background



ANNEX IV

LIST OF LEADING EXPERTS

DRAFT TEST GUIDELINES TO BE SUBMITTED TO THE TECHNICAL COMMITTEE IN 2007

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

before July 28, 2006

Test Guidelines	Document	Leading expert(s)
Bitter Gourd	document TG/MOM(proj.1)	Mitsuo Yuasa (JP)
Carrot (Revision)	document TG/49/8(proj.1)	François Boulineau (FR)
Cauliflower (Revision)	document TG/45/7(proj.1)	François Boulineau (FR)
Cucumber, Gherkin (Revision)	document TG/61/7(proj.2)	Marian van Leeuwen (NL)
Cucurbita moschata Duch.	document TG/CUC_MOS(proj.2)	Chrystelle Jouy (FR)
Husk Tomato	document TG/HUSK(proj.4)	Salvador Montes (MX)
Onion, Shallot (Revision)	document TG/46/7(proj.1)	Kees van Ettekoven (NL)
Pumpkin (Revision)	document TG/155/4(proj.1)	Malerotho D. Lekoane (ZA)
Spinach (Revision)	document TG/55/7 (proj.1)	Kees van Ettekoven (NL)
St. John's Wort	document TG/HYPER_PER(proj.1)	Heidemarie Heine (DE)

DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWV/41
(* indicates possible final draft Test Guidelines)

New draft to be submitted to the Office of the Union
before April 27, 2007

**(Guideline date for Subgroup draft to be circulated by Leading Expert: February 23, 2007
Guideline date for comments to Leading Expert by Subgroup: March 23, 2007)**

Species	Basic Document	Leading expert(s)	Interested experts (countries)[1]
Agaricus L.	new	Sergio Semon (QZ)	CN, ES, JP, KR, NL, PL, ISF[2]
Beetroot (revision)*	TG/60/6	Kees van Ettekoven (NL)	CN, CZ, DE, FR, GB, PL, ZA, ISF[2]
Black radish (revision)	TG/63/6	Heidemarie Heine (DE)	CN, FR, JP, KR, NL, PL, ISF[2]
Cardon (*Cynara cardunculus* L.)	new	Chrystelle Jouy (FR)	DE, ES, IT, ISF[2]
Chamomile (Revision)*	TG/152/4 (proj.1)	Heidemarie Heine (DE)	CZ, FR, HU, PL, ISF[2]
Chayote *(Sechium edule* (Jacq.) Sw.)	new	Salvador Montes (MX)	FR, ZA, ISF[2]
Coriander (*Coriandrum sativum* L.)	new	Ricardo Zanatta Machado (BR)	CN, DE, FR, NL, QZ, ZA, ISF[2]
Cowpea (Yangon bean) (*Vigna angularis* (Willd.) Ohwi & H. Ohashi)	new	Mitsuo Yuasa (JP) Kees van Ettekoven (NL)	BR, CN, FR, KE, KR, ZA, ISF[2]
Dock	TG/RUMEX (proj.1)	Nadiya Leschuk (UA)	CZ, HU, NL, PL, ISF[2]
Maize	TG/2/7(proj.1)	TWA: Joel Guiard (FR) / Tamás Harangozó (HU) / TWV: Zsuzsanna FÜSTÖS (HU)	BR, CN, CZ, DE, FR, IL, JP, KE, MX, NL, PL, QZ, SK, ZA, ISF[2]
Leek (revision)*	TG/85/6	Marian van Leeuwen (NL)	CZ, DE, FR, GB, PL, QZ, ZA, ISF[2]

[1] for name of experts, see List of Participants (Annex I)
[2] to be circulated to isf@worldseed.org and to the ISF representatives included in the List of Participants (Annex I)

Species	Basic Document	Leading expert(s)	Interested experts (countries)[1]
Pea*	TG/7/10(proj.3)	Niall Green (UK)	BR, CZ, DE, ES, FR, HU, JP, NL, PL, QZ, ZA, ISF[2]
Portulaca	TG/PORTU (proj.1) (TWO)	TWO: Mr. Mizuno (JP)	NL, IL, ISF[2]
Radish (revision) *	TG/64/6	François Boulineau (FR)	CN, CZ, DE, ES, GB, IT, JP, KR, NL, PL, QZ, ZA, ISF[2]
Rockets (*Diplotaxis* DC) *	TG/ROCKET (proj.2)	Chrystelle Jouy (FR)	IT, NL, QZ, ZA, ISF[2]
Rockets (*Eruca* Mill.) *	TG/ROCKET (proj.2)	Chrystelle Jouy (FR)	IT, NL, QZ, ZA, ISF[2]
Rosemary*	TG/ROSEMARY (proj.3)	Baruch Bar-Tel (IL)	DE, FR, GB, HU, NL, PL, QZ, ISF[2]
Taro (*Colocasia* Schott)	new	Mitsuo Yuasa (JP)	CN, ISF[2], (OAPI)
Yam (*Dioscorea* L.)	new	Mitsuo Yuasa (JP)	CN, KE, ISF[2]

[End of Annex IV and of document]