



TWV/38/9

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

**TECHNICAL WORKING PARTY  
FOR  
VEGETABLES**

**Thirty-Eighth Session  
Seoul, June 7 to 11, 2004**

REPORT

*adopted by the Technical Working Party for Vegetables*

Opening of the Session

1. The Technical Working Party for Vegetables (TWV) held its thirty-eighth session in Seoul, Republic of Korea, from June 7 to 11, 2004. The list of participants is reproduced in Annex I to this report.
2. The session was opened by Mr. Kees van Ettekoven, Chairman of the TWV, who welcomed the participants.
3. The TWV was welcomed by Mr. In-Tae Bae, Director-General of the National Seed Management Office, Ministry of Agriculture and Forestry of the Republic of Korea.

Adoption of the Agenda

4. The TWV adopted the revised draft agenda as reproduced in document TWV/38/1 Rev., after having deleted item 10(k): Test Guidelines for Rosemary.

## Short Reports on Developments in Plant Variety Protection

### *(a) Reports from members and observers*

5.. The TWV received oral reports from the participants on developments in plant variety protection (PVP) in their respective countries.

6. In Brazil, protection was now available for 17 vegetable genera and species. Since 1998, the annual number of applications had been over 100. The majority of the applications were for agricultural crops but the number of applications for vegetable varieties had increased, due to the increase in the number of applications from abroad, especially for strawberry and beans.

7. Since 1993, 29 applications had been filed for vegetable varieties in Canada, 13 of which had been applications for herbs, such as mint, marjoram and borage.

8. The Czech Republic had become a member of the European Community (EC) on May 1, 2004, together with another nine States. The European plant variety protection scheme became totally operational in these States, i.e. the protection titles granted by the Community Plant Variety Office (CPVO) had been extended automatically to cover the new member States. In the Czech Republic, all varieties listed in the national catalogue had been checked with respect to their conformity with the EC Directory. Some 1,500 Czech vegetable varieties had been integrated in the EC Common Catalogue.

9. Disease resistance test services had been set up in GEVES in France with the aim of harmonizing disease resistance trial methodology and delivery of trial reports, in cooperation with private seed companies. Example varieties and reference strains were distributed free of charge to the participating seed companies. In France, 623 vegetable DUS trials were established in 2003. DNA markers were tested for their possible application in DUS testing of varieties of asparagus, artichoke, cardoon, carrot and melon.

10. In Mexico, 569 applications had been filed in relation to 57 species from 1996 to 2004. 38% had been filed by Mexican breeders, while 37% and 25% had been filed by American breeders and breeders from the rest of the world, respectively. 19 applications had been filed for vegetable varieties, such as husk tomato, lettuce, pepper and tomato.

11. In June 2004, a two-week international training course for plant variety protection would be held in Wageningen, Netherlands. In 2003, the total annual number of applications for the national list and plant variety protection reached 850. A strong relationship had been established between the Netherlands and Turkey for the latter's implementation of plant variety protection and accession to the UPOV Convention. An attempt to introduce the use of tests on the breeders' premises in the EC Plant Variety Protection scheme, as used for national listing in the Netherlands, had failed. The Naktuinbouw applied molecular techniques for the enforcement of plant breeders' rights but not for DUS testing purposes.

12. In South Africa, the majority of applications had been filed for hybrid maize and vegetable varieties. A substantial increase had been observed in the number of vegetable applications from European countries, in particular, for the protection of genetically modified varieties of agricultural crops and sugar beet.

13. In Spain, approximately 250 new applications had been filed in 2003 for national list registration, of which 8% were also the subject of an application for plant variety protection. There had also been applications for parental lines for hybrid varieties of cucumber and tomato, as well as rootstocks. Work for the harmonization of disease resistance testing was underway with the participation of breeders. Trials of molecular techniques were conducted for lettuce, melon and pepper varieties.

14. In the United Kingdom, a study on image analysis was underway for peas and other vegetables. It was considered that this technique might be more suitable for a large number of measured characteristics such as in agricultural crops, but also for testing complex shapes. It was currently used for DUS testing purposes in the United Kingdom as described in documents TWC/22/4 and TWC/22/7.

15. On May 1, 2004, the Czech Republic, Cyprus, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, the Slovak Republic and Slovenia became members of the European Community (EC). On this date, the Community Plant Variety Rights System had been extended automatically to those new member States. The EC and 11 members had deposited their instruments of accession to the FAO International Treaty on Plant Genetic Resources for Food and Agriculture, on March 31, 2004. This had triggered the entry into force of the International Treaty on June 29, 2004. The procedure for the EC to become a member of UPOV was in progress.

16. The Community Plant Variety Office (CPVO) of the European Community had received approximately 2,500 applications in 2003, representing an 11% increase compared to the previous year. 236 applications had been made for vegetable varieties, representing a 35% increase from 2002. This increase could be attributed to the increased number of applications for hybrid varieties, such as tomato. In the same year, approximately 1,900 titles of protections had been issued in all crops, representing an 11% increase. New protocols had been adopted for 12 vegetable species, on the basis of the corresponding UPOV Test Guidelines. In total, 30 vegetable protocols were available, covering over 90% of vegetable applications. The CPVO was co-financing and collaborating in a EU project together with France, Spain and the Netherlands, for the harmonization of disease resistance tests in tomato and French bean. The CPVO was cooperating with UPOV in the development of its variety denomination database.

17. The International Seed Federation (ISF) had held its annual conference in Berlin in May 2004 and had discussed views on the protection of hybrid varieties and their parental lines. The ISF saw difficulties in protecting vegetatively propagated hybrid varieties as, according to the provisions of the UPOV Convention, the protection title granted to parental line covers only hybrid varieties whose production required repeated use of the protected parental line. This explained the recent increase in the numbers of applications for hybrid varieties in the CPVO.

18. Dr. Jin-Young Yoon, Vice-President of Seminis Korea, made a PowerPoint presentation on the vegetable seed industry of the Republic of Korea.

*(b) Reports on developments within UPOV*

19. The TWV received an oral report from the Office of the Union on the latest developments on plant variety protection within UPOV and, in particular, those developments

concerning the Council, the Administrative and Legal Committee and the Technical Committee.

### Molecular Techniques

#### *(a) Developments in UPOV concerning the use of molecular techniques in DUS testing*

20. The TWV noted document TWV/38/2 and agreed that the Annex to that document should be used to explain UPOV's position on the use of molecular techniques for DUS testing purposes. The TWV recommended that the CAJ should consider the use of molecular techniques for the enforcement of plant breeders' rights as a future field of UPOV's work.

#### *(b) Ad hoc Crop Subgroups*

21. The TWV noted that there had been no meetings of the *Ad hoc* Subgroup for Mushroom and the *Ad hoc* Subgroup for Tomato, since its thirty-seventh session held in June 2003. The TWV also observed that there had been no progress in the work of the *Ad hoc* Subgroup for Mushroom since its last meeting in Tsukuba, Japan, in September 2002, and, under current circumstances, further developments were not expected.

22. Mr. Richard Brand, Chairman of the *Ad hoc* Subgroup for Tomato, informed the TWV that there had been no significant progress in the work on the use of molecular techniques for the DUS testing of tomato varieties, and, therefore, there was no urgent need to hold a meeting of the Subgroup for Tomato. He observed, however, that it might be useful to update the information on the use of molecular techniques for DUS testing for vegetable varieties, and this should be done in the framework of the TWV.

23. The TWV agreed the following recommendations:

- (i) to dissolve the *Ad hoc* Subgroup for Mushroom;
- (ii) to update the information on the work on the use of molecular techniques for the DUS testing of tomato varieties;
- (iii) to keep this item on the agenda for future TWV sessions to exchange information on the use of molecular techniques for the DUS testing of vegetable varieties.

### TGP Documents

24. The Office of the Union explained the overall workplan for the establishment of TGP documents on the basis of document TC/40/5 Add.

25. The representative of the CPVO proposed that document TGP/11/1 (The examination of stability and "verification") should be retained in the Annex II of document TC/40/5 Add.

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

*TGP/4          Management of Variety Collections*

26. The TWV noted the following remarks made on document TGP/4 Draft 1:

(i) several keywords used in the document such as “variety collection”, “permanent collection”, “plant collection”, “working variety collection”, “temporary variety collection”, “whole collection”, “reference collection”, “perennial collection” should be clearly defined;

(ii) in response to a request for clarification of the last sentence of Section 1.3.3.1, the Chairman explained that, for example, the candidate variety could be sent through international cooperation to a country where the necessary reference varieties existed.

*TGP/9 Examining Distinctness*

27. The TWV noted document TGP/9 Draft 1 and TGP/9 Draft 1 Add. and noted the following remarks made on document TGP/9 Draft 1:

(i) concerning Section 2.2.2, which introduced the concept of “distinctness plus,” a question was raised whether this concept, closely related to the application of GAIA soft ware, could be appropriate for the testing of vegetable varieties;

(ii) with respect to Section 5.2.3 on the use of “blind” testing, the TWV noted different opinions on the participation of breeders in “blind” testing; it was further observed that the “blind” test should not be considered to be a replacement for the normal DUS methods.

*TGP/10 Examining Uniformity*

*10.2 Assessing Uniformity According to the Features of Propagation*

28. The TWV noted the following remarks made on document TGP/10.2 Draft 2:

(i) an expert from France pointed out that there might be cases in the assessment of uniformity of some cross-pollinated varieties where the authority would need guidance on whether the uniformity should be assessed on the basis of the number of off-types or according to the relative uniformity concept. For example, in cases where off-types occur, e.g. skin color in a cross-pollinated root crop, how these should be considered. It should be made clear whether the number of off-types should be compared with other similar varieties, or whether a population standard and acceptance probability should be applied, as in self-pollinating species. Supplementary explanations should be provided to address such cases, for example, by introducing a procedure for a combined application of both strategies for the assessment of uniformity;

(ii) the expert from the United Kingdom pointed out that the uniformity assessment on the basis of the relative uniformity concept, would not work if the earliest applications for protection of a crop species were very uniform. In such cases, applications which follow could be rejected for being less uniform, even if the level of uniformity was considered acceptable. The establishment of a fixed uniformity standard, say 1% or 2% of allowable off-types, might be helpful in such cases. Similarly, a maximum acceptable level could be set for continuous variation.

*10.3.1 Statistical Methods: COYU*

29. The TWV noted the remarks made by the expert from the United Kingdom on document TGP/10.3.1 Draft 2, that, so far, the probability levels appearing in the draft were not used in Test Guidelines for vegetable species.

*10.3.2 Statistical Methods: Off-Types*

30. The TWV noted document TGP/10.3.2 Draft 3. The TWV did not provide any comments.

31. Due to the limited time available, it was not possible for the TWV to examine the drafts thoroughly during the present session. The TWV agreed, however, that a more comprehensive list of comments should be prepared by a small open-ended volunteer group led by the Chairman of the TWV, and submitted to the Office of the Union as TWV's joint comments. The TWV noted that the Netherlands, the United Kingdom, the CPVO and the ISF would be members of the volunteer group.

*(b) Other TGP Documents:**TGP/12.1.1: Characteristics Expressed in Response to External Factors: Disease Resistance*

32. The Chairman introduced document TGP/12.1.1 Draft 3.

33. A representative of ISF informed the TWV that the ISF Conference held in Berlin in May 2004 had considered a document, which proposed the application of three different levels of disease resistance (resistant, intermediate resistant and susceptible), and wondered whether this could be reflected in the draft. The Chairman clarified that, as far as technical means to determine the different levels of resistance were not available, the draft would not need to be changed. However, the TWV agreed that the specific circumstances in the breeding of vegetable varieties would require the application of different levels of resistance in DUS testing and that this should be taken into account when drafting new Test Guidelines for vegetable species. Once all technical conditions were cleared, different levels of resistance could be inserted in Test Guidelines.

34. The TWV agreed that document TGP/12.1.1 Draft 3 be adopted, subject to the correction of the definitions in Annex (I) taking into account the definition adopted by ISF in May 2004. The amended Annex (I) reads as follows:

“Immunity: Not subject to attack or infection by a specified pest or pathogen.

Resistance is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure.

Susceptibility is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

Tolerance is the ability of a plant variety to endure abiotic stress without serious consequences for growth, appearance and yield. Vegetable companies will continue to use tolerance for abiotic stress.”

*TGP/12.1.3 Characteristics Expressed in Response to External Factors: Insect Resistance*

35. The TWV noted document TGP/12.1.3 Draft 1, which had been prepared by the TWA. The TWV did not make any comment on the content of the document, but observed that the introduction of resistance to insects should be also considered in parallel to the disease resistance. Therefore, the TWV recommended that document TGP/12.1.1 should also be examined by the TWA at its next session in Poland in July 2004. The TWV further recommended that documents TGP/12.1.1 and TGP/12.1.3 should be combined to be one single document as the same principle could be applied to both disease and insect resistance characteristics.

Use of TGP/7 in Preparation of Test Guidelines

36. The Office of the Union introduced document TGP/7/1 (provisional version) which had been adopted by the Technical Committee at its fortieth session in March 2004. The Office of the Union demonstrated how to use an electronic template.

37. The TWV observed that the current version of the electronic template would need to be improved to be more user-friendly. A compact users' guide might also be useful.

UPOV Information Database

38. The Office of the Union introduced document TWV/38/3, which contained information on the plans for the development of UPOV codes and the GENIE database as well as on the plans for improvements to the Plant Variety Database.

39. With regard to the proposals concerning UPOV codes for inter-generic and inter-specific hybrids (paragraphs 9 to 11 of document TWV/38/3), the TWV agreed to the elimination of the letter X.

40. With regard to the proposals for multiple-ranked names (paragraphs 12 to 17 of document TWV/38/3), the TWV agreed to simplify the UPOV codes for *Beta* and *Brassica* by introducing groups within species. The TWV agreed further that the naming of groups should be made on the basis of botanical names of the subspecies representing the individual groups, and Mr. Niall Green (United Kingdom) offered to propose new UPOV codes for these groups. Proposals would be sent to the Office of the Union at the beginning of August 2004.

41. With regard to the development of UPOV codes, the TWV was invited to consider the proposed UPOV codes, relevant to the TWV, as presented in Annex III of document TWV/38/3. Comments would be prepared by the Chairman of the TWV, through consultation with relevant TWV experts, and sent to the Office of the Union by the end of August 2004.

Project to Consider the Publication of Variety Descriptions

42. The Office of the Union introduced document TWV/38/4.
43. Mr. Mitsuo Yuasa (Japan), Coordinator for Chinese Cabbage, introduced a report on a preliminary analysis of descriptions of Chinese Cabbage varieties provided by Germany, Japan, the Netherlands, Poland and the Republic of Korea. Mr. Yuasa's report is reproduced in Annex II to this report.
44. Mr. van Ettehoven, Coordinator for Lettuce, introduced a report on a preliminary analysis of descriptions of Lettuce varieties provided by the Czech Republic, Germany, the Netherlands (variety descriptions of protected varieties and variety descriptions from the Dutch national list of varieties), Poland and Spain. Mr. van Ettehoven's report is reproduced in Annex III to this report.
45. It was noted that the degree of difference in descriptions varied from characteristic to characteristic and, in particular, was dependent on the type of its expression (quantitative, qualitative and pseudo-qualitative). In general, differences were smaller in the case of qualitative and pseudo-qualitative characteristics. Some experts observed that a difference of one note might not be relevant in the case of quantitative characteristics, whereas it might be serious in the case of qualitative and pseudo-qualitative characteristics. Different descriptions might be attributed to different interpretations of the characteristic in question.
46. In the light of the presence of serious differences among variety descriptions of the same variety prepared by different authorities, the TWV felt it important to consider the possible consequence of the publication of such different descriptions.
47. The TWV further observed that one of the most important objectives of the publication of variety descriptions would be to facilitate the selection of varieties which should be planted side by side with the candidate variety according to the grouping characteristics. In this respect, the TWV endorsed the current UPOV approach that grouping characteristics should, in principle, be selected from qualitative and pseudo-qualitative varieties.
48. Concerning the proposal to use GAÏA software to compare variety descriptions, an expert from France explained that less stable and, therefore, less reliable characteristics, would receive a low evaluation in GAÏA database and, therefore, GAÏA software could provide useful information to compare variety descriptions, depending on the criteria set out by the crop expert.
49. Finally, the TWV agreed to wait for guidance from the Chairman of the TWC, which would meet in Tsukuba, Japan, from June 14 to 17, 2004, before further action would be taken.

Variety Denomination Classes

50. The Office of the Union introduced document TWV/38/5. The TWV noted the developments in the Working Group on Variety Denomination (WG-VD) concerning recommendations on variety denominations, and made comments on the proposals concerning the classes: 3, 5, 6, 9-17, 23, 24, 28, 30, 31, 35 and proposals C, D, G and H, as follows:

Classes	Comments of the TWV
3	To delete Class 3
5, 6, 28	To create 3 Classes: Class (a): Brassica oleracea Class (b): Brassica rapa (B. campestris): Chinensis group and the Pekinensis group only Class (c): other Brassica
9, 30	To delete Classes 9 and 30
10, 11, 31	To retain Classes 10, 11 and 31
12	To delete Valerianella from Class 12
13	To create 3 Classes: Class (a): Cucumis sativus Class (b): Cucumis melo Class (c): other Cucumis
14	To delete Class 14
15	To delete Class 15
16	To delete Class 16
17	To delete Class 17
23, 24	To merge Classes 23 and 24, pending ISF comments
35	To retain Class 35
<u>Proposals</u>	Comments of the TWV
C, D	Not to create a Class for Allium porrum and a Class for species other than Allium porrum
G, H	Not to create a Class for Raphanus sativus L. var. oleiformis and a Class for species other than Raphanus sativus L. var. oleiformis

### Discussion on Working Papers on Test Guidelines

#### *Chickpea (Revision) (document TG/143/4(proj.1))*

51. The subgroup, chaired by Mr. Richard Brand (France), agreed the following changes to document TG/143/4(proj.1):

- Char. 1            Wording in brackets to read "... (when pods fully developed)"; states 1 and 9 to be deleted (no example varieties)
- Char. 2            To replace the states 3, 5, 7 by the states 1, 3, 5; to be indicated as QN; to delete MS
- Char. 3            To delete MS
- Char. 5            To be deleted
- Char. 6            To be indicated as QN.
- Char. 9            To change to: "Pod: peduncle length"
- Char. 10           To delete MS
- Char. 11           To be indicated as QN: to delete the asterisk
- Char. 13           To change to: "Pod: number of seeds"; states to be: "predominantly one" (1), "one and two" (2), "predominantly two" (3); to be indicated as QL
- Char. 14           To be indicated as PQ; to change "ochre" to "yellowish brown"
- Char. 15           To be indicated as QN

Char. 16	State 1 to be deleted; to add the following example varieties to the existing ones: “Pedrosillano” (3), “Ampero, Amit” (5), “Castellano, Bianka” (7), “Blanco lechoso” (9); conformity between the Spanish and French example varieties to be checked by experts from France and Spain
Char. 17	To be indicated as PQ
Char. 18	To be indicated as QN
Char. 20	To delete state 9
8.1(c)	To be deleted
8.1	Add “8.2” before the text “Explanations for individual characteristics”
8.2 Ad. 13	To replace 50% with 60% for levels 2 and 3
TQ	To delete the introduction about parent lines
TQ 6	To add: “seed weight” (column 2), “medium” (column 3), “very high”(column 4)
TQ 7.3	To delete ASW 16
TQ 9.3	To delete ASW 17

*French Bean (Revision) (document TG/12/9(proj.1))*

52. The subgroup, chaired by Mr. François Boulineau (France), agreed the following changes to document TG/12/9(proj.1):

2.3	The minimum quantity of seeds to be 1.5kg or 15,000 seeds
3.5.2	To be deleted
4.2.3	The population standard of 1% to be applied with the maximum number of off-types allowed being 2
5.3	To include characteristics 2, 14, 19, 21, 26, 39, 40, 41, 47; the table with different types to be removed
Char. 1bis	Example varieties to be provided by Japan
New	A new characteristic to be inserted to read: “ <u>Only climbing beans</u> : Plant: architecture” (QL, VG) with the states of expression “pyramidal” (1), “rectangular” (2) with example varieties to be provided by France
Char. 4	To add VG
Char. 5	To add VS
Char. 6	Spain to provide explanation
Char. 8	To receive the states of expression “absent or very weak” with example varieties provided by Brazil and “very strong” with example variety received from France
Chars. 10, 11	To receive drawing
Char. 12	PQ to be replaced by QN
Chars. 14, 15	To receive the state of expression “white pink” (improved wording requested) between white and pink; QL to be replaced by PQ
Char. 16	To be deleted
Char. 17.1	To read: “Pod: length ( <u>excluding</u> beak)”

Char. 18	To read: “Pod: width at maximum point”; explanation to be provided
Chars. 18 bis, 19	Explanation to be provided
Char. 19	Example varieties to be provided by France for state 3
Chars. 23, 24, 25	To be observed at dry seed harvest stage
Char. 25bis	To be deleted
Char. 26	To read: “Pod: stringiness on ventral suture”; to receive explanation
Char. 28	Example varieties to be provided by France
Char. 30	To receive MS, and the notes 3,5,7
Char. 33	VG to be replaced by VS; example varieties to be supplemented by Brazil
Char. 35	QL to be deleted; to receive the additional state of expression “rectangular” (5) with the example variety “Polanka”
Char. 38	To add MS
Char. 38bis	To add VG; to read: “Seed: length
Char. 40	QL to be replaced with PQ; “buff-colored” to be replaced with “beige”
Char. 41	QL to be replaced with PQ; “buff-colored” to be replaced with “beige”, state of expression “white” to be deleted if Brazil does not provide an example variety
Char. 42	To read: “Seed: distribution of secondary color” with the states of expression “around hilum” (1), “on entire grain” (2), “on half of grain” (3); illustration to be provided; to receive an asterisk;
Char. 44	To be deleted
Char. 45	MS to be replaced by VS
Char. 47	To receive an asterisk
Chars. 48.1, 48.2 and 49	To receive the three states of expression “absent” (1), “moderately expressed” (2), “strongly expressed” (3); QL to be replaced by QN
8.1	An additional explanation to be inserted to refer to characteristics 23 to 25, reading: “Pod: Observations on the secondary color of pod should be made at dry seed stage”.
TQ	The sentence referring to hybrid varieties on the first page of the TQ to be deleted
TQ 5.3	Characteristics 14, 17, 46.1, 46.2 and 48 to be added
TQ 6	An appropriate example to be inserted
TQ 7.3	To be deleted

53. The expert from Spain proposed to include two new characteristics, such as “Plant: anthocyanin coloration in the first internode” with the states “absent” (1), “present” (9) and “Plant: number of ova including abortions” with the states “few” (3), “medium” (5),

“many” (7). The insertion of these characteristics would be considered by the leading expert after the receipt of example varieties provided by Spain.

*Ginseng (document TG/GINSENG(proj.3))*

54. The subgroup, chaired by Mr. Keun-Jin Choi (Republic of Korea), agreed the following changes to document TG/GINSENG(proj.3):

- 1 To read: “These Test Guidelines apply to all varieties of *Panax ginseng* C.A. Meyer, *Panax quinquefolium* L., *Panax notoginseng* (Brukill) F.H. Chen ex C.Y.Wu and K.M. Feng, *Panax japonicum* C.A. Meyer and *Panax trifolium* L.”
- 3.1 ASW 3 to be deleted
- 3.2.2 To be deleted
- 3.3.2 To be deleted
- 3.3.3 Reference to the table “life cycle of Ginseng” at the end of Section 8 to be inserted
- 4.2.2 The number of off-types allowed to be checked
- 4.2.3 To be deleted
- 6.4.2 To be deleted if there are no example varieties belonging to species other than *Panax ginseng* C.A. Meyer
- Char. 2 To read “number of stems” with the states of expression “predominantly one” (1), “predominantly two” (2), “predominantly three” (3)
- Char. 6 The word “main axis” to be replaced with “peduncle”
- Char. 8 The original wording “occurrence” should be retained
- Char. 11 To read: “leaflet: length”
- Char. 12 To read: “leaflet: width”; “(a)” to be replaced by “(b)”
- Char. 14 To be checked by the leading expert whether to have the states 1, 2, 3 or to read: “moderately concave” (3), “plane” (5), “moderately convex” (7)
- Char. 15 To have the states of expression “absent or very weak” (1), “moderate” (2), “strong” (3)
- Char. 16 To read: “Leaf: color at senescence” and to be placed after characteristic 23; “(a)” to be deleted
- Char. 17 To receive example varieties “Chunpoong” (3), “Gumpoong” (5)
- Char. 18 To read: “Peduncle: length”
- Char. 19 Botanical terms to indicate the types to be provided
- Char. 21 To receive an example variety for state 3
- Char. 22 To remove pictures
- Char. 23 To have the states of expression “round” (1), “kidney-shape” (2); the wording for state 3 to be checked by the leading expert
- Char. 24 To receive an example variety for state 3

Char. 25	To receive an example variety for state 3
Char. 26	State 2 to read: “cream”
Char. 27	To receive an example variety for state 1
Chars. 28,29,30	To be deleted
Ad. 4	To be improved and completed (four states of expression to be illustrated) by the leading expert
Ad. 6	“flower stalk” to be replaced by “peduncle”
Ad. 7	To be deleted
Ad. 8	To be checked by the leading expert
Ad. 18	Illustration to be improved (indicate exactly what was meant by “length”) by the leading expert
Ad. 22	To be deleted
Ad. 27	Illustration to be improved by the leading expert
Life cycle	To create a cross reference in e.g. 3.3
TQ 4.2	To be completed (see TGP/7 GN31)
TQ 5	The number of characteristics inserted in this Section to be reduced
TQ 6	Example to be provided from TQ characteristics.

*Husk Tomato (document TG/HUSK(proj.2))*

55. The subgroup, chaired by Mr. Salvador Montes (Mexico), agreed the following changes to document TG/HUSK(proj.2):

General	Example varieties to be provided by the leading expert as a result of this year’s trials for discussion next year
UPOV Code	To change PHYSA_IXO into PHYSA_PHI
Alternative names	To change the French column into: Physalis, Tomatillo
4.2.2	To read: “For the assessment of uniformity of seed-propagated varieties, the recommendations in the General Introduction for cross-pollinated varieties should be followed, as appropriate.”
5.3	To delete “(c)” To add: (c) Fruit: shape in longitudinal section (characteristic 23) (d) Fruit: main color (characteristic 26a)
6.5	To delete in the legend MG, MS, VG, VS with related information
Char. 1	To add (+)

- Char. 2 To have the states 1, 3, 5
- Char.4 To read: “Stem: anthocyanin coloration on internodes (as for 2)”
- Char.5 To add notes “very weak” (1) and “very strong” (9)
- Char. 11 To read: “Leaf blade: intensity of color”
- Char. 12 To read: “Leaf blade: pubescence”; to change notes “sparse, medium, dense” to “weak, medium, strong”
- Char. 15 To replace VG by VS
- Char. 16 To read: “Flower: color of anthers”; to change VG into VS
- Chars. 17, 18 To change VG to VS
- Char. 19 To change MS to VS
- Char. 20 To delete “(at maturity)”
- Char. 22 To read: “Fruit: ratio length/width”
- Char. 23 To change the states of expression “flattened” into “flat” and “cordate” into “heart shaped”, respectively; to add an asterisk
- Char. 26 To change the state of expression “cleft” to “depressed”
- New Char. 26a To insert a new asterisked characteristic, reading: “Fruit: main color” VC, PQ, (c), with the states of expression “yellow” (1), “green” (2), “purple” (3)
- Char. 27 To delete the asterisk
- Char. 31 To change the word “partial” to “medium”
- Char. 36 To be deleted
- Char. 38 To read: “Fruit: proportion of flesh”
- Char. 39 To change the states of expression “loose, medium, dense” to “soft, medium, firm”
- Char. 40 To read: “Fruit: number of seeds”; to have the states “few, medium, many”
- Char. 44/45 To reverse order of the characteristics, as harvest maturity is before physiological maturity
- Char. 46 To delete words in brackets; to be placed after Char. 40
- Chars. 47 to 53 To add (+)
- 8.1 To delete “(a)”; (b) to become (a); (c) to become (b)
- New 8.1(a) Replace “leaf” by “leaf blade”
- New 8.1(b) Replace “commercial” by “harvest”
- Ad. 1 To read: “The observation should be made at stage of 10 cm.”
- Ad. 5 The last sentence to read: “As under greenhouse conditions, the variation is rather low, the observation should be made in the open field.”
- Ads. 19 + 34 “maturity” to be replaced by “harvest maturity”
- Ads. 47 to 53 Explanation to be provided by the leading expert

9. Literature to be provided by the leading expert  
TQ 4.2 To be deleted  
TQ 5.1 To insert characteristics 2, 4, 23, 26, 26a and 41  
TQ 6 To add: “size” (column 2), “small” (column 3), “large”(column 4)

*Industrial Chicory (Revision) (document TG/172/4(proj.1))*

56. The TWV examined draft Test Guidelines for Industrial Chicory (document TG/172/4(proj.1))and agreed to the following changes:

- 2.3 To add: “or at least 60.000 seeds”  
6.5 To delete MG, MS, VG and VS with all information, as this is already included in 3.3  
Char. 1 To add the new state of expression “Polyploid” (5) for which an example variety to be provided by an expert from France  
Char. 2 France to provide an example variety for state 3; otherwise, to delete the asterisk  
Char. 4 France to provide an example variety for state 3  
Char. 9 State 9 to be deleted  
Char. 10 State 9 to be deleted  
Char. 14 France to provide an example variety for state 3  
Char. 15 France to provide an example variety for state 7  
Char. 17 The example variety “Orchis” to be transferred to note 5 and to be written as “Orchies”; the example variety “Markise” to be transferred to note 3  
New Char. 22 A new characteristic to be inserted, reading “Male sterility” VS, QL with the states of expression “absent” (1) Luxor, “present” (9); an example variety for note (9) to be provided by France  
8.1(b) To change “inulin” into “total sugar”  
Ad. 17 To change “Relative inulin” into “total sugar”  
TQ 5.4 To change example variety “Mariene” (5) to “Marlene”; to change example variety “Magdeburger Spitzkopt” (7) into “Magdeburger Spitzkopf”

*Melon (Revision) (document TG/104/5(proj.2))*

57. The subgroup, chaired by Mr. David Calvache (Spain), agreed the following changes to document TG/104/5(proj.2):

- 5.3 To include the following characteristics: 12, 28, 29, 38, 43, 47, 54, 60, 63  
5.4 To be deleted; to delete the table of types at the end of Section 8  
Char. 28 To receive the state “obovate” (4) with example varieties to be provided by

- France and to receive the state “broad elliptic” (6) with example varieties “Corin” and “Sardo”
- Char. 43 to present as: “absent or sometimes present” (1), “always present” (2)
- Char. 46 To insert the state “very strong” (9) with example varieties to be provided by France
- Char. 58 To read: “Only varieties with changes of fruit color from maturity to over maturity: Fruit at over maturity: hue of color” with the states of expression “pure yellow”, “orangish yellow”, “creamish yellow”
- Char. 63 To replace “ivory” with “whitish”
- Char. 64 To receive the qualification “Only varieties with cream yellow seed color:”
- Chars. 65, 66, 67 To replace “MS” with “VS”
- Char. 67 The states of expression to be extended to cover the range 1-9; to receive example varieties to be provided by France
- Char. 68 To read: “shelf life”; to insert the state “very short” with the example variety “Charentais”
- Char. 73 To be split into four characteristics: “Resistance to Race 1”, “Resistance to Race 2”, “Resistance to Race 5”, “Resistance to Erisyphae Race of *Sphaeroteca fuliginea*”. To receive a protocol and example varieties from France
- New A new characteristic “Resistance to Cucumber Mosaic Virus (CMV)” to be added after characteristic 78, with a protocol, example varieties to be provided by France
- 8.1 (c) To delete the indented sentences
- 8.1 (d) The words “In general” in the third sentence to be replaced by “When appropriate”
- 8.1 (e) To be deleted
- Ad. 7 Diagrammatical length of terminal lobe should be aligned correctly
- Ad. 28 The states of expression of notes 4 and 6 to be corrected
- Ads. 23, 29, 31, 52, 58 “General explanation about different components of color characteristics” to be removed from the Test Guidelines for Melon and to be incorporated into TGP/14.2.3 (color)
- Ad. 29, 31 The first sentence to start “For example”
- Ad. 57 The first part of the sentence to be deleted and the second part to be improved by Spain
- Ad. 62 The pictures to be replaced with a large illustration of a single seed; the explanation of “pine–nut shape” to be simplified
- Ads. 69-78 Protocols for disease/insect resistance to be improved by France; maintainers of pathogens to be provided

TQ	The reference to hybrid varieties to be deleted from the first page beneath the title
TQ 4.1	To be deleted
TQ.5	To include characteristics 12, 28, 29, 36, 43, 47, 49, 50, 54, 60, 63, 68
TQ 6	An example to be provided

*Parsley (Revision) (document TG/136/5(Proj.1))*

58. The subgroup, chaired by Mrs. Heidemarie Heine (Germany), agreed the following changes to document TG/136/5(proj.1):

2.3	To add: “50 g or at least 30 000 seeds for root parsley”
3.4.1	To read: “Each test should be designed to result in a total of at least 160 plants in the case of root parsley and at least 60 plants in the case of leaf parsley, which should be divided in two or more replicates.”
3.5	To delete (i), (ii) and (iv)
4.3.2	To be retained
Char. 1	To change from “low, medium, tall” to “short, medium, tall”; to add the state “very tall” (9) with the example variety “Gigante d’Italia”
Char. 2	To add the example varieties “Petuschka, Curlina” for note 3, “Laura” for note 7
Char. 3	To delete note 1
Char. 4	To delete example varieties “Parana 2” (note 1) and “Paramount” (note 5); to delete as a consequence note 1; to add the example varieties “Lisette, Darki” for note 5 and “Paravert” for note 7
Char.5	To replace the notes 3, 5, 7 by 1, 3, 5; to replace PQ by QN.
Char. 6	To add the example variety “Titan” for note 9; to delete the example variety “Mooskrause 2”
Char. 7	To add: “ <u>Only curled varieties:</u> ”; to delete the example variety “Paramount” and to add the example variety “Opal” for note 5
Char. 8	To replace PQ by QN; to delete the example varieties “Einfache Schnitt 2, Paramount” from note 3; to add the example variety “Frisé vert foncé” for note 3
Char. 9	To be deleted
Char. 10	To add: “ <u>Only curled varieties:</u> ”; to delete the example variety “Mooskrause 3” from note 9; to add example variety “Titan” to note 9
Char. 11	To add an asterisk and a (+); to delete note 1
Char. 12	To add an asterisk and a (+); to delete “Curled varieties only:”; to add the example varieties “Curlina” for note 5 and “Darki” for note 7, respectively
Char. 13	To delete the asterisk; to read: “Leaf blade: ratio length/width”

Char. 14	To add example variety “Opal” to note 7
Char. 15	To replace PQ by QN; note 5 to read “medium triangular”; to add the example variety “Gigante d’Italia” for note 3
Char. 16	To be deleted
Char. 17	To read: “Leaflet: undulation of margin” with states of expression “weak, medium, strong”; to delete (+); to delete the example variety “Paramount” from note 5
Char. 18	To add (+); to replace VS by MS; to delete the example varieties “Curlina” from note 3 and “Mooskrause 2” from note 5; to add the example varieties “Grüne Perle” for note 3 and “Bravour, Clivi” for note 5
Char. 19	To add (+), to replace VS by MS; to delete the example variety “Perlina” from note 3; to add the example variety “Laura” for note 3 and “Titan” for note 7
Char. 20	To delete “ <u>Curled varieties only:</u> ”; the title to read: “Leaf blade: distance between 1 <sup>st</sup> and 2 <sup>nd</sup> pair of leaflets”; to delete note 1; to be placed before characteristic 17
Char. 24	To read: “ <u>Only root parsley:</u> Root: width” with the states of expression “narrow, medium, broad”
Char. 25	To be deleted
New Char. 25a	To insert a new characteristic reading: “ <u>Only root parsley:</u> Root: ratio length/width” (MS, QN) with states of expression “small (3), medium (5), large (7)”
Char. 26	To delete the example variety “Dobra” from note 3
8.1 (b)	To be deleted
8.2 Ad. 17	To be deleted
8.2 Ad. 25	To be deleted
TQ	To delete the introduction about parent lines
TQ 1.2	To delete ASW 14
TQ 5.6	To delete
TQ new 5.6	To add new characteristic 25a
TQ 7.3	To delete ASW 16
TQ 9.2	To delete ASW 17

*Pea (Revision) (document TG/7/10(proj.1))*

59. The subgroup, chaired by Mr. Niall Green (United Kingdom), agreed the following changes to document TG/7/10(proj.1):

1. General      The Subgroup for Pea agreed:
- not to split vegetable and agricultural peas;
  - not to split peas into cultivar groups representing the main use types;
  - not to separate characteristics on the basis of dependency;
  - to retain the layout of characteristics as in the existing Test Guidelines
  - not to create an additional list of characteristics
- 2.3              A number of seeds to be also provided
- 3.3.2 (iv)      To be deleted
- Char. 2          To read: “Seed: type of starch grain”
- Char. 3          To insert “orange” with state 3 and with example variety “Oliver”
- Char. 6          To read: “Seed: hilum color” with the states of expression “black” (1), “not black” (2)
- Char. 7          To be indicated as PQ
- Char. 12        To delete the asterisk
- Char. 13        To insert an asterisk
- Chars. 14, 15    To remove the qualification
- Char. 17        To read: “Only varieties with medium green foliage: Foliage: intensity of color”
- Char. 18        To be deleted
- Chars. 26, 27    To be combined into one characteristic
- Char. 28        To delete the asterisk
- Char. 29        To have the states of expression “absent or weak” (1), “moderately expressed” (2), “strongly expressed” (3); QL to be replaced by QN
- Char. 30        To be deleted
- Char. 32        After this characteristic, four characteristics for image measurement to be inserted as follows:
- “Stipule: size”, with states of expression: “small” (3), “medium” (7), “large” (7)
- “Stipule: length from axil to tip”, with states of expression: “short” (3), “medium” (5), “long” (7)
- “Stipule: length from axil to base”, with states of expression: “short” (3), “medium” (5) and “long” (7)
- “Stipule: width of lobe below axil”, with the states of expression: “narrow” (3), “medium” (5), “broad” (7)
- The leading expert to provide a clearer explanation

- Char. 35 To delete the qualification  
After this characteristic to add a new characteristic, reading: “Only varieties without leaflet: Petiole: total length (from axil to last tendril) with states of expression “short” (3) Choucas, Frediro, “medium” (5) Alambo, Alezan, “long” (7) Arosa, Calao
- Chars. 39, 40 To be deleted
- Char. 45 To delete MS
- Char. 47 To be changed to Pod characteristic at stage 235-245
- Char. 47 After this characteristic to add the following three new characteristics:  
“Only varieties without leaflet: Peduncle: length between 1<sup>st</sup> and 2<sup>nd</sup> pods” (QN, MS/VS) with states of expression “short” Alita, Alize, “medium” Access, Kirio, “long” Alex, Aladin  
“Peduncle: length of spur” (QN, MS/VS) with states of expression “short” Cabro, Kirio, “medium” Rialto, Duez and “long” Alezan, Calao  
“Peduncle: number of bracts at flowering stage” (QN, MS/VS) with states of expression “absent or very few” (example varieties to be provided by France), “few” Kirio, Fauvette, “medium” Delta, Duez, “many” Eiffel, Goelan
- Char. 49 To read “Pod: width (as for 46)”
- Char. 50 To have states of expression “absent or partially present” and “entirely present”; the example variety “Orlex” to be deleted
- Char.51 After this characteristic a new characteristic to be inserted reading: “Pod: type of concave curvature” with states of expression “curvature along the length of pod” and “curvature towards the pod apex only” with drawings to be provided by the United Kingdom
- Char. 53 To be deleted
- Char. 56 Note 5 to receive example varieties from France
- Char. 61 After this characteristic, to insert a new characteristic reading: “Plant: height when green seed fully developed” with states of expression “very short, short, medium, tall, very tall”
- Chars. 63, 64 To be combined into one characteristic
- Char. 65 The states of expression to read “very low, low, medium, high, very high”
- Char. 66, 68, 69, 70, 71, 72 VG to be replaced by VS

*Pepper (Revision) (document TG/76/8(proj.1))*

60. The subgroup, chaired by Mr. Kees van Ettehoven (Netherlands), in the absence of the leading expert Zsuzsanna Füstös, agreed the following changes to document TG/76/8(proj.1):

Cover	To add under alternative names in Spanish: “Chile, Aji”
2.3	To change “3000 seeds” to “2 500 seeds”
3.4.1	To read: “Each test should be designed to result in a total of at least 20 plants, which should be divided between 2 replicates.”
3.5	To read: “Unless otherwise indicated, all observations should be made on 20 plants or parts taken from each of 20 plants.”
4.2.2	To read: “For the assessment of uniformity of open pollinated varieties, a population standard of 2 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 20 plants, 2 off-types are allowed.”
New 4.2.3	To read: “For the assessment of uniformity of F1 hybrids, 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.”
4.3.3	To be deleted
5.3 (a)	To be retained
New 5.3	To add (i), (j) and (k)
Char. 2	To replace VS by VG; to replace the notes “3, 5, 7” with “1, 3, 5”
Char. 5	To replace QL into PQ.
Char. 8	To add (+)
Char. 9	To read: “Plant: height (at maturity)” with the states of expression “very low, low, medium, high, very high”; to add (+)
Char. 11	To delete note 9
New Char 11a	To read: “Leaf: color” VG, QL with the states of expression “green” (1) with the example variety “Lamuyo” and “purple” (2) with an example variety to be provided by France
Char. 12	To read: “ <u>Only varieties with green leaves</u> : Leaf: intensity of green color”
Char. 13	To replace VG with VS; to add (+); to replace the states of expression “lanceolate, elliptic, deltoid” by “lanceolate, ovate, cordate”
Char. 16	To have the states of expression “flat” (1), “moderately curved” (2) “strongly curved” (3); to add (+)
Char. 18	The state of expression for note 3 to read “drooping”
New Char. 18a	To insert a new characteristic reading: “Flower: anthocyanin coloration in filament” VS, QL with the states of expression and example varieties “absent” (1) Danza, “present” (9) Lamuyo
Char. 19	To add (+); to replace QL by PQ; to add the state of expression “greenish white” (1) with the example varieties “Twiggy, Blanc d’Espagne”; to replace notes 1, 2, 3 by 2, 3, 4
New Char 20a	To insert a new characteristic reading: “Fruit: anthocyanin coloration before maturity” VS, QL with the states of expression and example varieties “absent” (1) Lamuyo, “present” (9) Violetta; an additional example variety to be provided by France

- Char. 21 To read: “Fruit: attitude at maturity”
- Char. 22 To read: “Fruit: length at maturity”
- Char. 23 To read: “Fruit: diameter at maturity”
- Char. 24 To delete the numbers in brackets; to add (+)
- Char. 25 To replace “flattened” with “flat”; to replace VG by VS
- Char. 26 To replace VG by VS
- Char. 27 To read: “Fruit: situation of pericarp”; to add (+)
- Char. 28 To replace QL by QN
- Char. 29 To read: “Fruit: color after first color change”
- Char. 30 To delete all example varieties; to delete notes 1 and 9
- Char. 31 To correct “very weak”
- Char. 33 To place a comma between the example varieties for note (3) “Fehér” and “Latino”
- Char. 35 To deleted note 9; to add (+)
- Char. 36 To replace QL by QN
- Char. 38 To be deleted
- Char. 43 To replace VG by VS; to read: “Time of beginning of flowering (first flower on second flowering node)”
- Char. 44 To replace VG by VS; to read: “Time of ripening (color change of fruits)”
- Char. 45.2,  
Char. 45.3,  
Char. 45.4 To add an asterisk
- Char. 48 To be deleted
- Char. 49 To be deleted
- Char. 50 To add (+)
- New Add 8 To read: “To be observed on flowering nodes”
- New Add 9 To read: “To be observed after a good fruit setting on several nodes. Poor fruit set may influence the vigor and thus the height of the plant”
- New Add 13 Photos to be provided by France
- New Add 16 Photos to be provided by France
- Add. 18 Drawings to be improved by an expert from ISF
- New add 19 To read: “The maturity of pepper is reached at the moment of first color change.”

New Add 24	1 very small (< 0,5) 3 small (0,65-0,8) 5 medium (0,94-1,25) 7 large (1,75-2,75) 9 very large (> 4)
Add 25	Second drawing of “hornshaped” (9) to be removed; to change note (1) “flattened” into “flat”
New Add. 27	To be provided by France
New Add 35	To be observed at the middle part of the fruit
New Add 50	Method to be provided by France
9	Literature provided by France partly to be included; to facilitate the exchange on information on the use of biomolecular techniques for the UPOV options 1 and 2, it is proposed to divide literature into 2 chapters; 1 general information and 2 biomolecular information.
TQ	To delete the introduction about parent lines
TQ new 5.9	Add Char 45.1, 45.2, 45.3, 45.4
TQ new 5.10	Add Char 46.1
TQ 6	To add: “Fruit: color at maturity” (column 2), “yellow” (column 3), “red” (column 4)
TQ 7.3	To keep ASW 16

*Sweetcorn (documents TWV/38/6-TWA/33/6, TG/2/6 + Corr.)*

61. The TWV examined document TWV/38/6-TWA/33/6 and document TG/2/6 + Corr. and observed that:

- Sweetcorn and Maize both belong to the same species and the present Test Guidelines for Maize (document TG/2/6 + Corr.) clearly applied to all varieties of *Zea mays* L., with the exception of ornamental varieties;
- the vast majority of characteristics used in TWV/38/6-TWA/33/6 were applicable to both sweetcorn and maize;
- document TG/2/6 + Corr. contained characteristics which indicated that that document had also been designed to be applied to sweetcorn varieties (e.g. characteristic 30: type of grain with the state of expression “sweet”).

62. The TWV, on the basis of the observations above, agreed to recommend that separate Test Guidelines for Sweetcorn should not be prepared and that the current Test Guidelines for Sweetcorn should be amended to better address sweetcorn varieties. The TWV also made the following comments:

- it should be the responsibility of the TWA to consider which characteristics in document TG/2/6 + Corr. should be deleted;

- until now, TG/2/6 was not used for the testing of sweetcorn varieties, but separate national guidelines for sweetcorn had been used; thus there was little experience with respect to the applicability of the current Test Guidelines for Maize to sweetcorn varieties;
- notwithstanding the above, some characteristics specific to sweetcorn varieties would not be adequately covered using the present Test Guidelines for Maize; a minimum number of additional characteristics would need to be added;
- it would be possible to distinguish “sweetcorn” varieties and varieties other than sweetcorn varieties using characteristics such as “sugar content” and “shrinking at dry stage”; thus it would be possible to introduce characteristics specific to sweetcorn varieties, some of which would be introduced as characteristics for sweetcorn varieties only;
- conversely, characteristics contained in the current Test Guidelines for Maize, not applicable to sweetcorn varieties, could be indicated as “for maize only”;
- the following characteristics of document TWV/38/6-TWA/33/6 are specific to sweetcorn varieties and should be added to the current Test Guidelines for Maize:

(3a) Leaf: intensity of green color

(25) Plant: number of tillers

(26) Tiller: length

(40) Cob: diameter

(41) Corn: number of colors

(50) Corn: sugar content

#### Recommendations on Draft Test Guidelines (Plenary)

63. On the basis of the changes specified in paragraphs 51 to 62, the TWV agreed to present the following draft Test Guidelines for adoption by the Technical Committee at its forty-first session in 2005:

- Chickpea (Revision)
- French Bean (Revision)
- Ginseng
- Industrial Chicory (Revision)
- Melon (Revision)
- Parsley (Revision)
- Pepper (Revision)

64. The TWV agreed that the Republic of Korea should circulate, within one month after the closure of the current session, additional comments on Test Guidelines for Melon for possible inclusion in the final draft Test Guidelines for Melon. The TWV agreed further to organize a ring test on melon in the course of 2005, according to a protocol to be prepared by Mr. David Calvache (Spain). Five countries would be invited to select five varieties (one variety for each country) which should be different from each other and contain characteristics critical to evaluate the applicability of the revised Test Guidelines for Melon. It was agreed, however, that further revision of the adopted Test Guidelines for Melon would not be subject to the results of the ring test. It was noted that France, Japan, Netherlands, Republic of Korea and Spain would select one variety each and provide seeds for the ring test whereas France, Japan, Netherlands, Republic of Korea, South Africa and Spain expressed their willingness to participate.

65. The TWV agreed to re-discuss the following draft Test Guidelines at its thirty-ninth session:

- Husk Tomato
- Peas (Revision)
- Rosemary

66. The TWV agreed to suspend the work for the Test Guidelines for Mushroom. The TWV was informed that the CPVO would prepare a protocol for Mushroom on the basis of the work so far made by the TWV.

67. For Test Guidelines for Sweetcorn, the TWV agreed to send its recommendations and comments on document TWV/38/6-TWA/33/6, as summarized in paragraphs 61 and 62, to the TWA and to the TC.

68. The Office of the Union introduced document TWV/38/7, which contained the outcome of the Fifth Asian Regional Technical Meeting for Plant Variety Protection, held in Hanoi, Viet Nam, from February 16 to 20, 2004, and document TWV/38/8, which contained background information concerning the introduction and revision of test guidelines.

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

- Broccoli (Partial revision of male sterility)
- Corn Salad, Lamb's Lettuce (Revision)
- Cucumber, Gherkin (Revision)
- *Cucurbita moschata* (New)
- Lettuce (Partial revision of resistance to *Bremia lactucae*)
- Mint (New)
- Rocket (New)

70. The leading experts, interested experts and timetables for the development of the Test Guidelines, as set out in paragraphs 63, 65 and 69 are summarized in Annex IV.

#### Date and Place of Next Session

71. At the invitation of the expert from Slovakia, the TWV agreed to hold its thirty-ninth session in Nitra, Slovakia, from June 6 to 10, 2005.

#### Future Program

72. During the thirty-ninth session, the TWV planned to discuss or re-discuss the following items:

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 (brief oral reports by the participants)

- (b) report on developments within UPOV (oral report by the Office of the Union)
4. Molecular Techniques
  5. Project to consider the Publication of Variety Descriptions
  6. Review of UPOV Information Databases
  7. TGP Documents
  8. Discussion on draft Test Guidelines for:
    - Husk Tomato
    - Peas (Revision)
    - Rosemary
    - Broccoli (Partial revision of male sterility)
    - Corn Salad, Lamb's Lettuce (Revision)
    - Cucumber, Gherkin (Revision)
    - *Cucurbita moschata* (New)
    - Lettuce (Partial revision of resistance to *Bremia lactucae*)
    - Mint (New)
    - Rocket (New)
  9. Recommendations on draft Test Guidelines (Plenary)
  10. Date and place of next session
  11. Future program
  12. Report on the conclusions of the session (if time permits)
  13. Closing of the session

#### New Chairperson

73. The TWV agreed to propose to the Technical Committee, that Mr. Niall Green (United Kingdom), be recommended to the Council as Chairman of the TWV.

#### Technical Visits

74. On Thursday, June 10, 2004, the TWV visited a Ginseng breeding field, the DUS Testing Division of the National Seed Management Office of the Ministry of Agriculture and Forestry, in Suweon, near Seoul.

#### Other Issues

75. The TWV proposed that when more than one Technical Working Party works on the same Test Guidelines document, the result of the previous meeting should be submitted to the subsequent meetings in the TG format.

76. The TWV agreed that the timetable summarized in Annex IV should be respected by all experts involved. It was agreed especially that the leading experts should send the draft Test Guidelines directly to the members of the subgroup, rather than through the Office of the Union.

77. *This report has been adopted by correspondence.*

[Annex I follows]

LIST OF PARTICIPANTS

I. MEMBERS

BRAZIL

Luiz Claudio Augusto DE OLIVEIRA, Federal Agriculture Inspector, National Plant Variety Protection Service (SNPC), Ministry of Agriculture, Livestock and Food Supply, Esplanada dos Ministérios, Bloco D, Anexo A, Térreo, Salas 1-12, Brasilia, D.F. 70043-900 (e-mail: luizclaudio@agricultura.gov.br)

CANADA

Elizabeth PRENTICE-HUDSON (Mrs.), Examiner, Plant Breeders' Rights Office, Canadian Food Inspection Agency, Rm. 3361, 59 Camelot Drive, Nepean, Ontario K1A 0Y9 (tel.: +1 613 225 23 42 ext. 4393 fax: +1 613 228 66 29 e-mail: eprentice@inspection.gc.ca)

CZECH REPUBLIC

Radmila SAFARIKOVA (Mrs.), Dept. of Horticultural Species, Variety Testing Department, Central Institute for Supervising and Testing in Agriculture (UKZUZ), Hroznová 2, 656 06 Brno (tel.: +420 543 548 221 fax: +420 543 212440 e-mail: radmila.safarikova@ukzuz.cz)

FRANCE

François BOULINEAU, Horticultural DUS, Groupe d'étude et de contrôle des variétés et des semences (GEVES), Brion, 49250 Beaufort-en-Vallée (tel.: +33 2 41572322 fax: +33 2 41574619 e-mail: francois.boulineau@geves.fr)

Richard BRAND, Horticultural DUS, Groupe d'étude et de contrôle des variétés et des semences (GEVES) Cavaillon, INRA, B.P. 1, 84300 Les Vignères (tel.: +33 4 9078 6660 fax: +33 4 9078 0161 e-mail: richard.brand@geves.fr)

GERMANY

Heidmarie HEINE (Mrs.), Bundessortenamt, Osterfelddamm 80, Postfach 61 04 40, 30627 Hannover (tel.: +49 511 9566 728 fax: +49 511 9566 719 e-mail: heide.heine@bundessortenamt.de)

JAPAN

Mitsuo YUASA, Examiner, Office of Examination, Seed and Seedlings Division, Ministry of Agriculture, Forestry and Fisheries (MAFF), 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8950 (tel.: +81 3 3581 0518 fax: +81 3 3502 6572 e-mail: mituo\_yuasa@nm.maff.go.jp)

MEXICO

Salvador MONTES-HERNÁNDEZ, Examiner, Campo Experimental Bajío, Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias (CEBAJ-INIFAP), Km. 6,5 Carretera Celaya-San Miguel de Allende, Apartado Postal 112, 38110 Celaya, Guanajuato (tel.: +52 461 611 5323 fax: +52 461 611 5431 e-mail: montes.salvador@inifap.gob.mx)

NETHERLANDS

Kees VAN ETTEKOVEN, Manager, Varieties and Trials, Naktuinbouw, Sotaweg 22, Postbus 40, 2370 AA Roelofarendsveen (tel.: +31 71 332 6128 fax: +31 71 332 6363 e-mail: c.v.ettekoven@naktuinbouw.nl)

Marian A. van LEEUWEN (Mrs.), Naktuinbouw, Sotaweg 22, P.O. Box 40, 2370 AA Roelofarendsveen (tel.: +31 71 332 6126 fax: +31 71 332 6363 e-mail: m.v.leeuwen@naktuinbouw.nl)

REPUBLIC OF KOREA

National Seed Management Office (NSMO) (Headquarters)

In-Tae BAE, Director-General, Ministry of Agriculture and Forestry, National Seed Management Office (NSMO), 433, Anyang 6-dong, Manan-gu, Anyang-si Gyeonggi-do, 430-016 (tel.: +82-31-467-0100 e-mail: www.seed.go.kr)

Byung Muk LEE, Director of Plant Variety Protection Division, NSMO (tel.: +031-467-0150 e-mail: byungm@seed.go.kr)

Gue-Heung CHAE, NSMO (tel.: +031-467-0110 e-mail: cgh1512@seed.go.kr)

Jun-Hwan CHOI, NSMO (tel.: +031-205-9193 e-mail: [flower@seed.go.kr](mailto:flower@seed.go.kr))

Keun-Jin CHOI, Examiner, NSMO (tel.: +031-467-0190 e-mail: [kjchoi@seed.go.kr](mailto:kjchoi@seed.go.kr))

Eun-Sun CHUNG, NSMO (tel.: +031-273-4147 e-mail: [eschung@seed.go.kr](mailto:eschung@seed.go.kr))

Seuk-Jung HWANG, Examiner, NSMO (tel.: +031-467-0181 e-mail: [hsj21@seed.go.kr](mailto:hsj21@seed.go.kr))

Man-Hyung JANG, Examiner, NSMO (tel.: +031-467-0270 e-mail: [jmh@seed.go.kr](mailto:jmh@seed.go.kr))

Byeong-Seuk JEONG, NSMO (tel.: +031-467-0273 e-mail: [bsj@seed.go.kr](mailto:bsj@seed.go.kr))

Pil-Sik JIN, NSMO (tel.: +031-467-0112 e-mail: [jin586@seed.go.kr](mailto:jin586@seed.go.kr))

Chang-Gu KANG, NSMO (tel.: +031-467-0181 e-mail: [rkd@seed.go.kr](mailto:rkd@seed.go.kr))

Ok-Sun KIM, NSMO (tel.: +031-273-4146 e-mail: [helen69@seed.go.kr](mailto:helen69@seed.go.kr))

Yong-Sham KWON, NSMO (tel.: +031-273-4147 e-mail: [ykwon@seed.go.kr](mailto:ykwon@seed.go.kr))

Beon-Koo LEE, NSMO (tel.: +031-204-8772 e-mail: [leebk@seed.go.kr](mailto:leebk@seed.go.kr))

Chang-Hwan LEE, Examiner, NSMO (tel.: +031-467-0180 e-mail: [chlee@seed.go.kr](mailto:chlee@seed.go.kr))

Jae-In LEE, NSMO (tel.: +031-467-0170 e-mail: [jilee@seed.go.kr](mailto:jilee@seed.go.kr))

Sang-Duck LEE, NSMO (tel.: +031-273-4146 e-mail: [leesd@seed.go.kr](mailto:leesd@seed.go.kr))

Yong-Woo LEE, NSMO (tel.: +031-203-9649 e-mail: [yongwoo@seed.go.kr](mailto:yongwoo@seed.go.kr))

Young-Ran OH, NSMO (tel.: +031-467-0113 e-mail: [oyrchid@seed.go.kr](mailto:oyrchid@seed.go.kr))

Chan-Woong PARK, NSMO (tel.: +031-273-4146 e-mail: [chwopark@seed.go.kr](mailto:chwopark@seed.go.kr))

Choon-Kuen PARK, NSMO (tel.: +031-467-0111 e-mail: [pcko@seed.go.kr](mailto:pcko@seed.go.kr))

Myoung-Joo PARK, NSMO (tel.: +031-205-9193 e-mail: [gomiya@seed.go.kr](mailto:gomiya@seed.go.kr))

Soon-Gi PARK, NSMO (tel.: +031-205-9193 e-mail: [sgpark@seed.go.kr](mailto:sgpark@seed.go.kr))

Yong-Gyun PARK, NSMO (tel.: +031-467-0245 e-mail: [irea@seed.go.kr](mailto:irea@seed.go.kr))

Hyun-Joo SHIN, NSMO (tel.: +031-467-0191 e-mail: [shj-new@seed.go.kr](mailto:shj-new@seed.go.kr))

Eun-Hee SO, NSMO (tel.: +031-273-4146 e-mail: [soeunhee@seed.go.kr](mailto:soeunhee@seed.go.kr))

Young-Keu SON, Examiner, NSMO (tel.: +031-467-0174 e-mail: [sonyk@seed.go.kr](mailto:sonyk@seed.go.kr))

In-Ho SONG, Director of Variety Testing Division, NSMO (tel.: +031-204-8773 e-mail: [inhos@seed.go.kr](mailto:inhos@seed.go.kr))

Myoung-Ae SONG, NSMO (tel.: +031-467-0275 e-mail: [sma@seed.go.kr](mailto:sma@seed.go.kr))

Su-Hyun SONG, NSMO (tel.: +031-205-9193 e-mail: [sonhsh@seed.go.kr](mailto:sonhsh@seed.go.kr))

Mi-Hee YANG, NSMO (tel.: +031-467-0173 e-mail: [mh730@seed.go.kr](mailto:mh730@seed.go.kr))

Seung-In YI, NSMO (tel.: +031-273-4147 e-mail: [seedin@seed.go.kr](mailto:seedin@seed.go.kr))

NSMO East Branch Office

Ju-Seok MIN, Director, NSMO, East Branch Office (tel.: +033-336-6243 e-mail: minjs@seed.go.kr)

Oh-Gwon CHON, NSMO (tel.: +033-336-6242 e-mail: dooreenara@seed.go.kr)

Jun-Yon JANG, NSMO (tel.: +033-336-6242 e-mail: jangjy@seed.go.kr)

Ho-Sun LEE, NSMO (tel.: +033-336-6242 e-mail: hosun83@seed.go.kr)

Woo-Keun SHIN, NSMO (tel.: +033-336-6242 e-mail: shinwgun@seed.go.kr)

Byung-Cheon YU, NSMO (tel.: +033-336-6241 e-mail: ybc1209@seed.go.kr)

NSMO West Branch Office

Ki-Yull YU, NSMO, The Head of a West Branch Office, NSMO (tel.: +063-861-2593 e-mail: yukiyull@seed.go.kr)

Byung-Gun BAE, NSMO (tel.: +063-862-7667 e-mail: baebg@seed.go.kr)

Su-Yong CHOI, NSMO (tel.: +063-862-7667 e-mail: choisy@seed.go.kr)

Jung KIM, NSMO (tel.: + 063-861-2597 e-mail: kim 9644@seed.go.kr)

Hyuk-Ho LEE, NSMO (tel.: +063-862-7666 e-mail: hhlee@seed.go.kr)

Won Sig LEE, NSMO (tel.: + 063-861-2595 e-mail: leews6@seed.go.kr)

Young-Yi LEE, NSMO (tel.: +063-862-7667 e-mail: leeyy@seed.go.kr)

Sang-Don YUN, NSMO (tel.: +063-861-2595 e-mail: yunsd@seed.go.kr)

NSMO Milyang Branch Office

Hyung-Geun AHN, NSMO (tel.: +055-352-9552 e-mail: hgahn@seed.go.kr)

Su-Jeong CHOI, NSMO (tel.: +055-352-9552 e-mail: csj@seed.go.kr)

Hee-Sook HWANG, NSMO (tel.: +055-352-9552 e-mail: hshwang@seed.go.kr)

Jong-Ho LEE, NSMO (tel.: +055-352-9552 e-mail: leejh419@seed.go.kr)

Jeong-Bin LIM, Head of a Milyang Branch Office, NSMO (tel.: +055-355-2597 e-mail: imjbin@seed.go.kr)

NSMO Iksan Branch Office

Eung-Bon KIM, Head of a Iksan Branch Office, NSMO (tel.: +063-858-2194  
e-mail: ebkim@seed.go.kr)

Ministry of Agriculture and Forestry

Jun-Han SEO, Deputy Director, Agricultural Technology Support Division, Ministry of Agriculture & Forestry, 433, Anyang 6-dong, Manan-gu, Anyang-si, Gyeonggi-do (tel.: +02-500-1797 e-mail: junhans@maf.go.kr)

Ju-Sik Rhee, Korea Forest Service (tel.: +042-481-4179 e-mail: [do1121@foa.go.kr](mailto:do1121@foa.go.kr))

Korean Industrial Property Office (KIPO)

Ho-Jo LE, Korean Industrial Property Office, Patent Examiner (tel.: + 042-481-5631  
e-mail: [hjlife29@kipo.go.kr](mailto:hjlife29@kipo.go.kr))

Jun-Kyung KIM, Korean Industrial Property Office, Patent Examiner, (tel.: + 042-485-5637,  
e-mail: [cherry4@kipo.go.kr](mailto:cherry4@kipo.go.kr))

Rural Development Administration (RDA)

Hae-Jun Hwang, Gyeongnam A.R.E.S, Agricultural Researcher

Hae-Kil LEE, Gyeonggi-do A.R.E.S, Agricultural Researcher (tel.: +031-229-5791  
e-mail: [Lig8045@kg21.net](mailto:Lig8045@kg21.net))

Yeaul-Kyu SEUNG, Buyeo Tomato Experiment Station Chung Cheong Nam-DO A.R.E.S,  
(tel.: +041-835-7801 e-mail: [seungyk@hanmail.net](mailto:seungyk@hanmail.net))

Hak-Ki SHIN, National Horticultural Research Institute, RDA (tel.: +031-290-6142 e-mail:  
[hakishin@rda.go.kr](mailto:hakishin@rda.go.kr))

Hoe-Tae KIM, National Horticultural Research Institute, RDA, Principal Researcher  
(tel.: +010-4400-2600)

Jeong-Hwan HWANG, National Horticultural Research Institute, RDA, Leader of Apple  
Breeding Team (tel.: +031-240-3587 e-mail: [hjhsh@rda.go.kr](mailto:hjhsh@rda.go.kr))

Kwan-Dal KO, National Horticultural Research Institute, RDA, Director, Plant Physiologist  
(tel.: +031-240-3560 e-mail: [kdko@rda.go.kr](mailto:kdko@rda.go.kr))

Jong-Gyu WOO, National Horticultural Research Institute, RDA, Principal Researcher  
(tel.: +031-290-6192 e-mail: [woohgyu@rda.go.kr](mailto:woohgyu@rda.go.kr))

Young-An SHIN, National Horticultural Research Institute, RDA, Researcher  
(tel.: +031-240-3564 e-mail: [sya7357@rda.go.kr](mailto:sya7357@rda.go.kr))

Hyeon-Gui Moon, National Institute of Crop Science, RDA, Breeding Resource Development Division (tel.: +031-290-6745 e-mail: moonhg@rda.go.kr)

Young-Bok YOO, National Institute of Agricultural Science & Technology, RDA (tel.: +82-31-290-0375 e-mail: ybyoo@rda.go.kr)

Won-Young HAN, Yeongnam Agricultural Research Institute, Functional Soybeans Lab, (tel.: + 55-350-1222 e-mail: hanwy@rda.go.kr)

Suk-Woo JANG, National Alpine Agricultural Experiment Station, Agriculture Researcher, (tel.: +033-330-7525 e-mail: swjang@naaes.go.kr)

Young-Seok KWON, National Alpine Agricultural Experiment Station, Agriculture Researcher (tel.: + 82-374-330-7946 e-mail: yskwon@rda.go.kr)

#### Universities

Bu-Young YI, Seoul National University (SNU), Associate Professor (tel.: +02-2210-2601 e-mail: [Yby@uos.ac.kr](mailto:Yby@uos.ac.kr))

Byung-Dong KIM, SNU Professor (tel.: +02-880-4933)

Dong-Hwan KIM, SNU (tel.: +02-880-4933 e-mail: kimbd@anu.ac.kr)

Min-Kyu PARK, SNU (tel.: +02-880-4933 e-mail: kimbd@anu.ac.kr)

Woong-Gi MIM, SNU (tel.: +02-880-4933 e-mail: kimbd@anu.ac.kr)

Hyun-You CHANG, Professor/Dept of Mushrooms (tel.: + 031-229-5010 e-mail: hychang@kn.ac.kr)

Myoung-Hoon LEE, Donggguk University, Professor (tel.: +82-2-2260-3310 e-mail: mhoonlee@dgu.ac.kr)

#### Korean Seed Association

Bong-Sang SHIN, Korean Seed Association (tel.: +02-578-7637, e-mail: [kosa7637@unitel.co.kr](mailto:kosa7637@unitel.co.kr))

Eui-Sun JUNG, Korean Seed Association (tel.: +02-578-7637 e-mail: [kosa7637@unitel.co.kr](mailto:kosa7637@unitel.co.kr))

Hyun-Ho SHIN, Korean Seed Association (tel.: +02-578-7637 e-mail: [kosa7637@unitel.co.kr](mailto:kosa7637@unitel.co.kr))

Ohk-Ki KIM, Korean Seed Association (tel.: + 02-578-7637 e-mail: [kosa7637@unitel.co.kr](mailto:kosa7637@unitel.co.kr))

Hee-Young PARK, R A Manager, Syngenta Seeds Co. Ltd., First Bank Head Office B/D 18<sup>th</sup> Floor, 100 Kongpyung-dong, Jongro-ku, Seoul (tel.: + 02-3985-660 e-mail: heeyoung.park@syngenta.com)

Hyun-you CHOI, Nong Woobio Co., Ltd, Seed Management Department Chief (tel.: +031-884-1729 e-mail: [okok@nongwoobio.co.kr](mailto:okok@nongwoobio.co.kr))

Sung-Jin SEO, Nong Woobio Co., Ltd, Manager (tel.: + 031-213-4323 e-mail: [ssjin67@nongwoobio.co.kr](mailto:ssjin67@nongwoobio.co.kr))

Joong-Kyung LIM, Korean Society for Civilian Breeders of Fruit Trees (tel.: +041-865-6226 e-mail: [jspeach.com](mailto:jspeach.com))

Moon-Ki JUNG, The Korea Farmers & Fishermen's Newspaper, Reporter (tel.: +02-3401-8384 e-mail: [jungmk@agrinet.co.kr](mailto:jungmk@agrinet.co.kr))

No-Hyeun LIM, Korean Society for Civilian Breeders of Fruit Trees, President (tel.: +043-233-5014 e-mail: [370708LIM@hanmail.net](mailto:370708LIM@hanmail.net))

Sang-Deok LEE, Goyang Cactus E.S, Research Scientist (tel.: 031-229-6171 e-mail: [sd1717@ly21.net](mailto:sd1717@ly21.net))

Sung-sik LEE, KT&G, Principal Researcher (tel.: +031-400-1510 e-mail: [sungslee@ktng.com](mailto:sungslee@ktng.com))

In-Ok AHN, KT&G, Principal Researcher (tel.: +031-400-1512 e-mail: [ioahn000@ktng.com](mailto:ioahn000@ktng.com))

Won-Soo KEUM, KT&G, Principal Researcher (tel.: +031-400-1553 e-mail: [kws0051@ktng.com](mailto:kws0051@ktng.com))

Jong-Ho LEE, KT&G, Principal Researcher (tel.: +031-400-1513 (e-mail: [jjholee-1@ktng.com](mailto:jjholee-1@ktng.com)))

Il-Woong YOO, Dongbu Hannong Chemical, Seed Business Department (tel.: +02-3484-1504 e-mail: [iwyoo@dongbuchem.com](mailto:iwyoo@dongbuchem.com))

## SOUTH AFRICA

Adriaan Jakobus DE VILLIERS, Division of Variety Control, Directorate: SAAFQIS, NDA Private Bag X11, Gezina 0031 (tel.: +27 12 808 5386 fax: +27 12 808 5392 e-mail: [variety.control@nda.agric.za](mailto:variety.control@nda.agric.za))

Malerotho David LEKOANE, Division of Variety Control, Directorate: SAAFQIS, NDA, Private Bag X11, Gezina 0031 (tel.: +27 12 808 5386 fax: +27 12 808 5392 e-mail: [variety.control@nda.agric.za](mailto:variety.control@nda.agric.za))

SPAIN

David CALVACHE QUESADA, Director del Centro de Ensayos de Valencia, Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, c/ Joaquín Ballester No. 39, 46009 Valencia (tel.: +34 96 307 9604 fax: +34 96 307 9602 e-mail: oevvval@teleline.es)

UNITED KINGDOM

F. Niall GREEN, Herbage & Vegetable Crops, Scottish Agricultural Science Agency (SASA), 82 Craigs Road, East Craigs, Edinburgh EH12 8NJ (tel.: +44 131 2448853 fax: +44 131 2448939 e-mail: Niall.Green@sasa.gsi.gov.uk)

II. OBSERVERS

EUROPEAN COMMUNITY

Jacques GENNATAS, Head of Sector, Plant Variety Property Rights, Health and Consumer Protection Directorate-General, European Commission, 101, rue Froissart, Office: F101 05/92, 1049 Brussels, Belgium (tel.: +32 2 295 9713 fax: +32 2 295 6043 e-mail: jacques.gennatas@cec.eu.int)

Sergio SEMON, Expert for Fruits and Vegetables, Community Plant Variety Office (CPVO), 3 boulevard Maréchal Foch, B.P. 62141, 49021 Angers Cedex 02 France (tel.: +33 2 41 25 64 34 fax: +33 2 4125 6410 e-mail: semon@cpvo.eu.int)

INTERNATIONAL SEED FEDERATION (ISF)

Marcel BRUINS, Manager Plant Variety Protection, Intellectual Resource Protection and Regulatory Affairs, SVS Holland, Seminis Vegetable Seeds, Nude 54D, 6702 DN Wageningen, Netherlands (tel.: +31 317 450 218 fax: +31 317 450 217 e-mail: marcel.bruins@seminis.com)

Koos KOOLSTRA, Ryk Zwaan Zaadteelt en Zaadhandel B.V., P.O. Box 40, 2678 ZG De Lier, Netherlands (tel.: +31 174 532300 fax: +31 174 513730 e-mail: k.koolstra@rijkszwaan.nl)

III. OFFICE OF UPOV

Makoto TABATA, Senior Counsellor, 34, chemin des Colombettes, 1211 Geneva 20, Switzerland (tel.: +41-22 338 8739, fax: +41-22 733 0336, e-mail: makoto.tabata@upov.int)

[Annex II follows]

ANNEX II

Report on the Model Study on the Publication of Variety Description  
Chinese Cabbage  
Mitsuo Yuasa, Japan

1. Five countries, Germany, Japan, Republic of Korea, Netherlands and Poland participated in the model study on the publication of variety description of Chinese cabbage.
2. There were 14 varieties which appeared in the list from Germany, 67 varieties which appeared in the list from Japan, 60 varieties which appeared in the list from the Republic of Korea, 88 varieties which appeared in the list from the Netherlands, 20 varieties which appeared in the list from Poland.
3. There were two varieties which appeared in the list of three countries, 23 varieties which appeared in the list of two countries and the remaining 197 varieties appeared only in the list of one country.
4. The study processed on all 26 varieties appearing in the list of two or three countries. The attached table reproduces the processed data. The following are some findings from the data:
  - (1) 13 characteristics, "Plant: height" "Outer leaf: attitude" and so on, are described by all countries.
  - (2) "Solado" shows most similar characteristic expression between two countries (Netherlands and Poland, percentage of "the same note of characteristic" is 50%). It is followed by "Elliot", "Optiko" and "Stokin". "Oberisk" shows the largest difference characteristic expression between two countries (Netherlands and Japan, percentage of "the same note of characteristic" is 7%).
  - (3) "Outer leaf: color" shows most similar characteristic expression between countries (percentage of "the same note of characteristic" is 77%). This is followed by "Head: color of wrapped leaf" (percentage of "the same note of characteristic" is 58%). "Time of bolting" shows the largest difference characteristic expression between countries (percentage of "the same note of characteristic" is 0%). "Outer leaf: curvature in longitudinal section" and "Outer leaf: serration of margin" show a large difference characteristic expression between countries (percentage of "the same note of characteristic" is 4%).



## ANNEX III

Report on the Model Study on the Publication of Variety Description  
Lettuce

Kees van Ettehoven, Netherlands

1. The purpose of this document is to provide an update on the model study on Lettuce.
2. Following the discussions in the TWV/37, the TC agreed that the TWV would concentrate on Chinese Cabbage and Lettuce. The experts that expressed willingness to cooperate were asked to provide descriptions of the designated varieties to the coordinator.
3. For the meeting of the TWV/38 information was received from the Czech Republic, Germany, Hungary, the Netherlands PBR, the Netherlands National List, Poland and Spain.
4. A further additional list of variety names was received from the CPVO.
5. Unfortunately, the results from Hungary were not in the agreed format and the information from France has not yet been received.
6. As the other descriptions were not all based on the same version of the lettuce guideline, compilation of the results is not yet complete and is based on TG/13/7.
7. The initial results are based on three varieties with descriptions from four sources, 21 varieties with descriptions from three sources and 24 varieties with descriptions from two sources. For the time being, the varieties with a description from yet only one source was left out.
8. In the evaluation, the following principles were followed:
  - At first, the asterisked characteristics were studied;
  - Within the asterisked characteristics, the QL and PQ type characteristics were separated from the QN type characteristics;
  - Then the non-asterisked characteristics were considered following the same principles.

Characteristic 1 \* Seed color (PQ; 1-3)

All sources provided a note for all 48 varieties. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	3			
3 descriptions	21			
2 descriptions	24			

Characteristic 2 \* Anthocyanin coloration (QL; 1/9)

Only 1 note was missing. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	3			
3 descriptions	21			
2 descriptions	23	1 (mistake)		

Characteristic 7 \* Plant diameter (QN; 1-9)

All sources provided a note for all 48 varieties. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	1	1		1
3 descriptions	9	6	6	
2 descriptions	9	10	4	

Characteristic 8 \* Plant head formation (PQ; 1-3)

All sources provided a note for all 48 varieties. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	2	1		
3 descriptions	19	2		
2 descriptions	22	2		

Characteristic 13 \* Head Shape (PQ; 1-4)

5 notes were missing. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	1	2		
3 descriptions	7	11		
2 descriptions	18	4		

Characteristic 17 \* Color of outer leaves (PQ; 1-5)

All notes were present. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	2	1		
3 descriptions	11	10		
2 descriptions	18	6		

Characteristic 18 \* Intensity of color of outer leaves (QN; 1-9)

All notes were present. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	1	2		
3 descriptions	8	10	3	
2 descriptions	16	5	3	

Characteristic 19 \* Anthocyanin coloration (QL; 1/9)

All notes were present. Score:

	0 differences	diff, 1 note	diff, 2 notes	diff, 3 notes
4 descriptions	31			
3 descriptions	21			
2 descriptions	24			

Characteristic 25 \* Leaf blistering (QN; 1-9)

All notes were present. Score:

	0 diff	diff, 1 note	diff, 2 notes	diff, 3 notes	diff 4 notes	diff 5 notes
4 descriptions	0	2		1		
3 descriptions	2	8	8	2		1
2 descriptions	5	13	5	1		

Characteristic 37 \* Time of beginning of bolting (QN; 1-9)

Only 63 out of the maximum 123 notes were given, no comparison possible.

9. On the basis of these partial analyses, it may be concluded that within the asterisked characteristics the data are generally available (exception bolting) and that the number of differences is less than expected, but in some cases still considerable. It seems clear that QL and PQ type characteristics lead to less differences in description than QN characteristics.

10. Pending the recommendations of the TWC on this subject, it is proposed to continue the analyses as soon as the remaining data are available.

[Annex IV follows]

## ANNEX IV

**SCHEDULE FOR THE PREPARATION  
OF DRAFT TEST GUIDELINES  
TO BE SUBMITTED TO THE TECHNICAL COMMITTEE**

Draft Test Guidelines to be submitted to the Technical Committee for adoption should be prepared by the leading expert according to the following schedule:

By August 27, 2004	The leading experts should provide the Office of the Union with the missing information (example varieties, drawings explanations) as identified by the TWV and included in the report.
April 2005	Consideration for adoption by the Technical Committee

Documents to be prepared and the leading experts are summarized in the Table below:

Species	Documents to be prepared	Leading Expert
Chickpea (Revision)	TG/143/4(proj.2)	Mr. Richard Brand (FR)
French Bean (Revision)	TG/12/9(proj.1)	Mr. François Boulineau (FR)
Ginseng	TG/GINSENG(proj.4)	Mr. Keun-Jin Choi (KR)
Industrial Chicory (Revision)	TG/172/4(proj.2)	Mr. Kees van Ettehoven (NL)
Melon (Revision)	TG/104/5(proj.2)	Mr. David Calvache (ES)
Parsley (Revision)	TG/136/5(proj.1)	Mrs. Heidemarie Heine (DE)
Pepper (Revision)	TG/76/8(proj.1)	Mrs. Zsuzsanna Füstös (HU)

SCHEDULE FOR THE PREPARATION  
OF DRAFT TEST GUIDELINES FOR THE THIRTY-NINTH SESSION

- I. In the case of the following Test Guidelines, which were discussed at the thirty-eighth session of the TWV:

Species	Existing Working Documents or Test Guidelines	Leading Expert	Participating Experts
Husk Tomato	TG/HUSK(proj.2)	Mr. Salvador Montes (MX)	PL, ISF
Pea (Revision)	TG/7/10(proj.1)	Mr. Niall Green (UK)	CZ, DE, FR, HU, JP, NL, PL, ZA, CPVO, ISF
Rosemary	TG/ROSEMARY(proj.1)	Mr. Baruch Bar-Tel (IL)	FR

The following time schedule should be followed:

By October 1, 2004	All missing information and additional comments should be sent to the leading experts.
By November 1, 2004	The leading experts should prepare a new draft and distribute it to the participating experts (members of the subgroup).
By March 1, 2005	Comments or additional information should be sent to the leading experts.
By April 1, 2005	The leading experts should submit the revised final draft in the new format to the Office for distribution to the members of the TWV.
June 2005	Discussion at the thirty-ninth session of the TWV.

II. In the case of species, for which new work will start

Species	Existing Working Documents or Test Guidelines	Leading Expert	Participating Experts
Broccoli (Partial revision of male sterility)	TG/151/3	David Calvache (ES)	DE, FR, GB, KR, JP, NL, CPVO, ISF
Corn Salad, Lamb's Lettuce (Revision)	TG/75/6	François Boulineau (FR)	DE, NL, CPVO, ISF
Cucumber, Gherkin (Revision)	TG/61/6 Corr.	Mrs. Marian van Leeuwen (NL)	CZ, DE, ES, FR, JP, KR, CPVO, ISF
<i>Cucurbita moschata</i> (New)		Mrs. Chrystelle Mondière (FR)	JP, MX, NL, ZA, ISF
Rocket (New)		Mrs. Chrystelle Mondière (FR)	IT, NL, CPVO, ISF
Lettuce (Partial revision of resistance to <i>Bremia lactucae</i> )	TG/13/8	François Boulineau (FR)	NL
Mint (New)		Mrs. Chrystelle Mondière (FR)	CA, CZ, DE

The following time schedule should be followed:

By November 30, 2004	The leading expert should prepare a Working Paper and distribute it to participating experts of the subgroup.
By March 1, 2005	The participating experts should send comments and/or further contribution on the Working Paper to all experts in the subgroup.
By April 1, 2005	The leading experts should submit the revised final draft to the Office of the Union for distribution to the members of the TWV.
June 2005	Discussion in the thirty-ninth session of the TWV.

[End of Annex IV and of document]