



TWV/37/9

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

**TECHNICAL WORKING PARTY  
FOR  
VEGETABLES**

**Thirty-Seventh Session  
Roelofarendsveen, Netherlands, June 23 to 27, 2003**

REPORT

*adopted by the Technical Working Party for Vegetables*

Opening of the Session

- \*1. The Technical Working Party for Vegetables (TWV) held its thirty-seventh session in Roelofarendsveen, Netherlands, from June 23 to 27, 2003. The list of participants is reproduced in Annex I to this report.
- \*2. The TWV was welcomed by Mr. Kees van Ettehoven, Naktuinbouw (Netherlands), who made a report on the activities of Naktuinbouw.
- \*3. The session was opened by Mr. van Ettehoven who, in his role as Chairman of the TWV, welcomed the participants and, in particular, new participants to the TWV.

Adoption of the Agenda

- \*4. The TWV adopted the revised draft agenda as reproduced in document TWV/37/1 Rev.

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\* The asterisked paragraphs in this draft report are reproduced from document TWV/37/8 (Report on the Conclusions).

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. Mr. van Ettehoven made a presentation on a proposal Naktuinbouw had developed for the involvement of breeders' trials in its DUS examination for plant breeders' rights purposes and which is currently being used for national list purposes.

6. The expert from Brazil reported that, in Brazil, 443 plant varieties covering 40 species had been protected. Soybean was a particularly important crop in Brazil and 190 varieties had been protected. A new seed law had been enacted. National test guidelines for ornamentals and vegetables were under preparation.

7. The expert from the Czech Republic reported that a pre-accession process for joining the European Union (EU) was underway. All protected varieties and varieties included in the national list were to be checked before their inclusion in the EU Common Catalogue. Some difficulties had been found in relation to denominations of vegetable varieties concerning "umbrella" varieties and synonyms. After the three years of transitional period, varieties without problems would be integrated into the Common Catalogue while problematic varieties would only be retained in the national list. A new law concerning the marketing of seed and planting material, in order to implement EU rules, was expected to be published very soon. The number of applications for the national list of varieties had slightly decreased.

8. The expert from France reported that the number of national applications for PVP was now stable following the 50% reduction recorded after the establishment of the Community Plant Variety Office (CPVO). He noted that disease resistance was very important for vegetables, and that, in France, varieties were tested against more than 70 pathogens. Thus, disease resistance was important in DUS testing and a ring test was underway in three countries for French bean and tomato.

9. The expert from Germany reported that all variety testing units had been reorganized into two sections, one for DUS and one for Value for Cultivation and Use (VCU). All crop-based divisions had been abolished.

10. The expert from Hungary reported that, as in certain other Eastern European countries, various processes were underway for Hungary's accession to the EU. A new seed law would be discussed by the Parliament in September 2003. The number of Hungarian applications had increased because of an enlarged European market. In March 2004, a European Union training program would be organized by experts from Germany and the Netherlands.

11. The expert from Israel reported that during the 30 years of operation of the PVP system in Israel, 3,500 applications had been filed and 2,800 protection titles granted, with vegetable varieties representing approximately 10% of the total. The current economic recession had led to a decrease in the number of applications.

12. The expert from Japan reported that the Seeds and Seedlings Law had been amended such that the penal provision had been extended to cover harvested materials of protected varieties and the maximum possible fine had been increased from 3 million Yen (approximately 25,000 Euro) to 10 million Yen.

13. The experts from the Netherlands reported that vegetable variety testing had been completely transferred to the Naktuinbouw in Roelofarendsveen and that Plant Research International (PRI) had become an integral part of the Centre for Genetic Resources, the Netherlands (CGN). A new law, which would be a full revision of the existing law, had been sent to the State Council and was expected to be in place in 18 months. It was further reported that a study was underway in the Netherlands, on the use of molecular techniques in the management of reference varieties, where 90 tomato varieties would be used to compare results obtained from morphological characteristics with those obtained from molecular markers.

14. The expert from Poland reported that legislation in preparation for accession to the EU continued and new laws based on the EU Directives had been adopted by Parliament and would now be sent to Senate. Work had started on a descriptive list of vegetables, where VCU testing would also be conducted. Protocols needed to be established according to the CPVO technical protocols and variety descriptions would need to be prepared for inclusion of varieties into the EU Common Catalogue. Currently 120 to 150 species were tested annually, however, it was anticipated that this number would decrease after the entry of Poland into the EU because of the availability of the Community Plant Variety Rights scheme.

15. The expert from the Republic of Korea reported that, since 1998, 476 varieties had been granted titles protection of which 50 titles had been for vegetable varieties. The coverage of the plant variety protection scheme had been extended year-on-year and now extended to 113 genera and species.

16. The expert from Romania reported that a new seed law would be implemented soon. Regulations for variety denomination would be also introduced. The technical units were to be reorganized and there would be a need for technical experts to receive further training. Applications had been filed for 30 varieties of vegetable (potato and pepper), fruit trees (apple and plum) and cereals (maize, wheat and barley).

17. The expert from Slovakia reported that a new seed and variety law had been adopted in January 2003. However, this still needed further modification to achieve full compatibility with the EU Directive. The law was in line with the 1991 Act of the UPOV Convention, and the accession of Slovakia to that Act was envisaged. Since 2000, 42 applications had been filed for vegetables (especially for tomato and pepper), mainly by Czech and Slovak breeders.

18. The expert from Spain reported that the number of national applications for PVP continued to decrease and that most of the work was now undertaken on behalf of the CPVO.

19. The expert from Singapore reported that the Government of Singapore had initiated the drafting of a plant variety protection law on the basis of the 1991 Act of the UPOV Convention with a view to acceding to UPOV. Agriculture was a very small sector in Singapore with only 400 ha of horticultural farm land, of which two thirds were used for orchids, other ornamental and aquatic plants, and another one third for vegetable production. The extension services were active in production systems, pest and disease management, post-harvest control and trade missions. Plant variety protection would be a new activity. Singapore sought collaboration with other national offices with a view to learning how national test guidelines should be developed and used for DUS testing.

20. The representative of CPVO reported that, since 1995, applications for more than 1,800 vegetable varieties had been filed. In 2002, 174 applications had been filed for vegetable varieties, representing a 4% decrease from 2001. In 2002, applications for vegetable varieties

represented 8% of the total applications whereas, in the past, this was between 10 and 12%. The CPVO had adopted a new fee scale for plant variety protection with effect from April 1, 2003, with a substantial increase in the examination fees and a reduction in the annual fees. Work for the establishment of a variety denomination database was underway with EU member States and included participation by the Office of the Union. The CPVO had established technical protocols for 17 vegetables on the basis of the relevant UPOV Test Guidelines.

*(b) Reports on Developments Within UPOV*

\*21. 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 Technical Committee and the Technical Working Parties.

\*22. With regard to the report on document CAJ/46/7 concerning the notion of “essentially derived variety” in the breeding of ornamental varieties,” the TWV agreed that, in the table presented as the Annex to that document, the third column for case 1 (Title: Can be Protected by Another Breeder?) should read “possibly” as for the third column of case 2.

Molecular Techniques

*(a) Report on Developments*

\*23. The TWV received an oral report from the Office of the Union on the latest developments in molecular techniques on the basis of document TC/38/14 Add. – CAJ/45/5 Add.

*(b) Report on the Ad hoc Crop Subgroup for Mushroom*

\*24. The TWV received an oral report from Mr. Nico P.A. van Marrewijk, Chairman of the *Ad hoc* Crop Subgroup for Mushroom (Mushroom Crop Subgroup). The TWV also considered the comments made by the Technical Committee in document TC/39/15, paragraph 11. The Chairman of the Mushroom Crop Subgroup clarified that it was not the intention of that group to propose the use of molecular techniques for examining distinctness where distinctness could not be established using morphological characteristics. With regard to shiitake mushrooms, which it noted could be distinguished using morphological characteristics, the TWV agreed that there might be potential for an Option 2 approach. However, in the case of button mushrooms the TWV noted that many so-called “varieties” could not be distinguished using morphological characteristics and agreed that the use of molecular techniques to examine distinctness of such varieties would not be in accordance with the agreed UPOV position.

Project to Consider the Publication of Variety Descriptions

\*25. The Office of the Union introduced document TWV/37/5.

\*26. Mr. Mitsuo Yuasa (Japan), Coordinator for Chinese Cabbage, reported that he had received lists of varieties from Germany (14 varieties), the Netherlands (88), Poland (20) and the Republic of Korea (60). Together with the varieties described in Japan, Mr. Yuasa noted that there were two varieties which appeared in the lists of three countries, 23 varieties which appeared in the lists of two countries and the remaining 197 varieties only appeared in the list of

one country. The TWV agreed that the study should proceed on all 25 varieties appearing in the lists of two or more countries.

\*27. Mr. van Ettehoven, Coordinator for Lettuce, reported that he had received lists from the Czech Republic (132 varieties), France (437), Germany (132), Hungary (68), the Netherlands (PBR: 350; National List: 1,146), Poland (120) and Spain (93). These lists had revealed:

1	variety in the lists of	6 contributors
8	varieties in the lists of	5 contributors
20	varieties in the lists of	4 contributors
75	varieties in the lists of	3 contributors
381	varieties in the lists of	2 contributors
1,362	varieties in the list of	1 contributor.

\*28. The TWV agreed with Mr. van Ettehoven that the study should proceed on the basis of all 104 varieties which were included by three or more contributors and that a further 28 varieties be selected from the varieties included in the lists of two contributors to ensure involvement of all contributors.

\*29. The TWV agreed with the recommendations in document TWV/37/5 and, in particular, that the study should be based on all characteristics in the UPOV Test Guidelines.

#### Review of UPOV Information Databases

\*30. The TWV received an oral report from the Office of the Union on the plans for the development of UPOV codes and the GENIE database on the basis of document TC/39/13. It also received a report on the plans for improvements to the UPOV-ROM Plant Variety Database on the basis of document TC/39/14 – CAJ/47/5.

\*31. 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 document TWV/37/6. It was agreed that more time would be needed to check these codes, and a deadline of September 1, 2003, was set for comments to be sent to the Office of the Union.

#### TGP Documents

(a) TGP document to which the Technical Committee has given highest priority for discussion in 2003:

(i) *TGP/7: Development of Test Guidelines*

\*32. Document TGP/7 Draft 3 was introduced by the Office of the Union.

\*33. The TWV agreed the following recommendations:

- 2.5.2.1 To be redrafted to clarify that the sequence of drafts is an illustrative example and not the expected sequence for all Test Guidelines.
- 2.5.3.2 Recommendation as for 2.5.2.1

- 2.5.4 Recommendation as for 2.5.2.1
- 4.5.2 Title to read: “Possibility of separating some characteristics into quantitative and qualitative characteristics” and reference to be made to Section 4.4.2.3
- 4.5.4.2.1.2 Third sentence to read: “Where necessary, the even states can be worded by combining the wording of the preceding and following states, in that order, by using the word “to,” e.g. “very weak to weak (2)” (see Section 4.5.4.1.2)
- 4.6.2 Title to read: “Possibility of separating pseudo-qualitative characteristics into qualitative characteristics and pseudo-qualitative or quantitative characteristics” and reference to be made to Section 4.4.2.4
- 4.6.3.3 To read:
- Color: light green (1), *green* (2), dark green (3), purple green (4)  
*Not:* Color: light green (1), *medium green* (2), dark green (3), purple green (4)

#### Annex I (TG Template)

Cover page (and elsewhere) “Latin” name to be replaced by “Botanical” name

- 3.1 Highlighted first sentence to be kept but reworded to: “[The reliability of]/[Confidence in the] differences observed between varieties is supported by observations being made in different growing cycles or different locations.”
- 3.2 First sentence not acceptable as currently worded. The TWV agreed that it was not necessary for tests to be conducted at one place and was of the opinion that tests from different locations should be accepted. However, it did agree that one place should be used for producing descriptions and did recognize that it may be appropriate to use only one place to allow a statistical analysis of the results.
- If a first sentence is retained, the TWV proposed the following wording for the second sentence: “If any characteristics of the variety, which are relevant for the examination of DUS, cannot be observed at that place the authority should consider testing the variety at an additional place.” In proposing this wording the TWV noted that the authority should consider the possibility of testing at an additional location, but recognized that there were legitimate reasons why this may not be appropriate and why it should not be a general recommendation as proposed in the current second option.
- 4.1.2 The TWV agreed to the deletion of this paragraph.
- 10 (TQ) Section 7.2 Numbering 7.2.1 and 7.2.2 to be deleted and previous wording of 7.2.2 to be replaced by “(If yes, please provide details)” for consistency with Section 7.1

Annex 2 (Additional Standard Wording)

ASW 10 (TG Template: Section 4.3.3) – Stability assessment: hybrid varieties

To be amended to read: “*Where appropriate, or in cases of doubt*, the stability of a hybrid variety may, in addition to an examination of the hybrid variety itself, also be assessed by examination of the uniformity and stability of its parent lines.”

Annex 3 (Guidance Notes for the TG Template)

GN 12 Paragraph 3 to read: “Should be included in the Technical Questionnaire and should, in general, receive an asterisk in the table of characteristics.

GN 13(h)(i) The TWV noted that for vegetables, in general, example varieties would either be universally applicable, or would be very localized at the country level and, therefore, the need for regional example varieties would be very limited.

With regard to Option 3 (Multiple sets of example varieties to be provided on the UPOV Website), the TWV expressed concern at the possibility of confusion and lack of harmonization if many different countries provided example varieties independently. It also considered that this option would cause difficulties for those unable to access the internet. It proposed that, if this option was pursued, in the first instance the Technical Working Party concerned should agree who would contribute sets of example varieties.

New GN The TWV proposed that, in future, guidance in the different components of color characteristics, such as that presented in TG/104/5(proj.1), Section 3.3.2, might be helpful.

Annex 4 (Collection of Approved Characteristics)

Paragraph 1 The TWV agreed that this paragraph should include advice to users that they should not use characteristics from the database if those did not describe the characteristic in an appropriate way.

(ii) *Explanation of the “Schematic Overview of TGP/3 (Varieties of Common Knowledge), TGP/4 (Management of Variety Collections) and TGP/9 (Examining Distinctness)”*

\*34. The Office of the Union introduced document TC/39/6 Add. The TWV agreed with the proposals for the development of TGP documents set out in Annexes I to III, with the exception that TGP/12.4 should be deleted from Annex III.

(b) TGP Documents drafted by the Technical Working Parties

*TGP/12.1.1: Characteristics Expressed in Response to External Factors: Disease Resistance*

\*35. The Chairman introduced document TGP/12/1.1 Draft 2.

\*36. The TWV recommended the following amendments to document TGP/12.1.1:

General IFS to be replaced by ISF (International Seed Federation)

Paragraph 15 In the penultimate sentence, the word “uniformity” to be replaced by “resistance.” It was agreed that the current position of the Technical Committee with regard to disease resistance characteristics should be checked and that proposals for dealing with a “partial resistance” state should be developed in a future draft.

### Discussion on Working Papers on Test Guidelines

#### *Brussels Sprout (Revision) (document TG/54/7(proj.1))*

\*37. The subgroup, chaired by Mr. Niall Green (United Kingdom), agreed the following changes to document TG/54/7(proj.1):

General “convar. *oleraceae*” to be deleted from the botanical name.

2.2 To read “The material is to be supplied in the form of seed or plants.”

2.3 To read “The minimum quantity of plant material, to be supplied by the applicant, should be:

For seed-propagated varieties: 20 g or at least 5,000 seeds

For vegetatively propagated varieties: 60 plants

2.4 To read “In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.” (ASW 1(b) Option 2)

3.1 Word “[similar]” to be deleted

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 The following sections to follow 4.2.1:

“4.2.2 Cross-pollinated varieties

The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.”

4.2.3 Vegetatively propagated, single cross hybrids and self-pollinated varieties (inbred lines)

For the assessment of uniformity of vegetatively propagated, single cross hybrids and self-pollinated varieties (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 40 plants, 2 off-types are allowed.



#### 4.2.4 Hybrids

The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction. In the case of single cross hybrids, the uniformity standards are set out in section 4.2.3.”

5.3 New characteristic: “Male sterility” to be added as grouping characteristic (f).

6.5 Legend for MG, MS, VG and VS to be added.

#### 7. Table of Characteristics

Char. 1	QN	Brackets to be removed from “Jade Cross.”
Char. 2	QN	
Char. 3	QN	
New char.	QN	To read: “Leaf blade: length” with states short (3); medium (5); long (7). To be indicated as VG. Example varieties to be provided.
Char. 4	PQ	Hyphen to be deleted from “blue-green.”
Char. 5	QN	Example varieties to be provided.
Char. 6	QN	
Char. 7	QN	State 1 to be deleted (no example varieties).
Char. 8	QN	
Char. 9	QL	
Char. 10	QN	Hyphen to be deleted from “semi-erect”. State 7 to read “semi-pendulous”.
Char. 11	QN	To read “Petiole: length compared to blade”.
Char. 12	QN	Asterisk to be deleted.
Char. 13		To be deleted.
Char. 14	PQ	Word “of” to be replaced by “in”.
Char. 15	PQ	To be split into two characteristics. First characteristic to be indicated as PQ and to read “Sprout: color” with states: green (1); blue green (2); purple (3).
New char.	QN	Second characteristic to read: “Sprout: intensity of color” with states: light (3); medium (5); dark (7). Example varieties to be provided. To be indicated as VG.
New char.	QN	To read “Sprout: density at harvest maturity” with states: loose (3); medium (5); dense (7). Example varieties to be provided. To be indicated as VG.
Char. 16		To be deleted.
Char. 17	QN	To read “Stem: spacing of sprouts”.

Char. 18	QN	To read “Time of harvest maturity” and to receive an asterisk.
Char. 19	QN	To read “Stem: profile of sprout column” with state 2 to read “conical to cylindrical”.
New Char.	QL	To read “Male sterility” with states: absent (1); present (9). To receive (+) and explanation and example varieties to be provided. To be indicated as VS.

8. Explanations on the Table of Characteristics

To be updated in accordance with changes to the Table of Characteristics.

10. Technical Questionnaire

4.2 To read:

“4.2.1 Seed-propagated varieties

- |                          |     |
|--------------------------|-----|
| “(a) Self-pollination    | [ ] |
| “(b) Cross-pollination   |     |
| (i) population           | [ ] |
| (ii) synthetic variety   | [ ] |
| “(c) Hybrid              | [ ] |
| “(d) Other               | [ ] |
| (please provide details) |     |

“4.2.2 Vegetatively propagated varieties [ ]

“4.2.3 Other [ ]  
(please provide details)”

5. General

To be updated in accordance with changes to the Table of Characteristics.

5.5 To be deleted.

New TQ Char. “Male sterility” to be added.

6. Example to be “Plant: height” with examples “short” and “medium”.

7.3 ASW 16 text to be deleted.

*Cabbage (Revision) (document TG/48/7(proj.1))*

\*38. The subgroup, chaired by Mr. Kees van Ettehoven (Netherlands), agreed the following changes to document TG/48/7(proj.1):

General Botanical name(s) to be checked by the leading expert.

1. Subject of these Test Guidelines: Botanical name(s) to be checked by the leading expert. To refer to botanical types and to indicate common name and botanical name for each of the types.

2.2 To read “The material is to be supplied in the form of seed or plants.”

2.3 To read “The minimum quantity of plant material, to be supplied by the applicant, should be:

For seed-propagated varieties: 20 g or 5,000 seeds

For vegetatively propagated varieties: 60 plants

2.4 To read “In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.” (ASW 1(b) Option 2)

3.1 Word “[similar]” to be deleted

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 The following sections to follow 4.2.1:

“4.2.2 Cross-pollinated varieties

The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.”

4.2.3 Vegetatively propagated, single cross hybrids and self-pollinated varieties (inbred lines)

For the assessment of uniformity of vegetatively propagated, single cross hybrids and self-pollinated varieties (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 40 plants, 2 off-types are allowed.

4.2.4 Hybrids

The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction. In the case of single cross hybrids, the uniformity standards are set out in section 4.2.3.”

4.3.2 The words “or plant” to be added after “seed”.

4.4 To be deleted.

5.3 Char. 11 to be added as a grouping characteristic. Grouping characteristic (a) to be updated in accordance with the change to characteristic 11 in the Table of Characteristics.

6.4.2 to read “Example varieties are followed by an indication of the botanical types to which they belong and are separated by a semicolon. Thus, White cabbage types are indicated by (W), followed by a semicolon; Red cabbage types indicated by (R), followed by a semicolon; and Savoy cabbage types indicated by (S).” Table of Characteristics to be updated accordingly.

6.5 Legend for MG, MS, VG and VS to be added.

## 7. Table of Characteristics

General Where characteristics apply only to certain subspecies, the characteristic prefix to read e.g. “White cabbage varieties only”.

Chars. 1.1 to 1.3 To be indicated as QN.

Chars. 2.1 to 2.3 To be indicated as QN.

Char. 3 To be indicated as QN. To have “MS” added. To read “Plant” in English.

Char. 4 To be indicated as QN. To have the states 1, 3, 5 instead of 3, 5, 7. New state 5 to read “prostrate”.

Chars. 5.1 to 5.3 To be indicated as QN.

Char. 6 To be indicated as PQ.

Char. 7 To be indicated as QN.

Chars. 8.1 to 8.3 To be indicated as QN. To read “Outer leaf: degree of blistering”. Chars. 8.1 and 8.2 to be combined for White and Red cabbage varieties and to have the states: absent or low (1); moderate (2); high (3). Old Char. 8.3 to keep the same states.

Chars. 9.1 to 9.2 To be indicated as QN.

Char. 10 To be indicated as QN. (+) to be added and illustration to be provided.

Char. 11 To be indicated as PQ. Explanation (+) to be provided indicating that states 1 and 4 apply to White and Savoy cabbage types only and state 5 applies to Red cabbage types only.

Char. 12 To be indicated as QN. Asterisk to be deleted.

Char. 13 To be indicated as QL.

Char. 14 To be indicated as QN.

Char. 15 To be indicated as QN.

Char. 16 To be deleted.

Char. 17 To be indicated as QL.

Char. 18 To be indicated as PQ. To read “Head: shape in longitudinal section”. German translation to be amended.

Char. 19 To be indicated as PQ. To have the states: rounded (1); flat (2); arched (3).

Char. 20 To be indicated as QN. (\*) to be added. “MS” to be added.

Char. 21 To be indicated as QN. “MS” to be added.

- Char. 22 To be indicated as QN.  
Char. 23 To be indicated as QN. State 1 to read “not covered”.  
Char. 24 To be indicated as QN. French and German translations to be amended.  
Char. 25 To be indicated as QL.  
Char. 26 To be indicated as PQ. Explanation (+) to be provided as for Char. 11.  
Char. 27 To be indicated as QN.  
Char. 28 To be indicated as QN.  
Char. 29 To be indicated as PQ. “Violette” in French to have lower case.  
Char. 30 To be indicated as QN.  
Char. 31 To be indicated as QN. Illustration (+) to be provided.  
Char. 32 To be indicated as QN. Illustration (+) to be provided.  
Char. 33 To be indicated as QN. To read “Head: relative length of interior stem compared to length of head”. States to read: short (approx. 1/8) (3); medium (approx. 1/4) (5); long (approx. 1/2) (7).  
Char. 34.1 to 34.3 To be indicated as QN. (\*) to be added.  
Char. 35 To be indicated as QN. Example varieties to be provided for all types.  
New Char. To read “Male sterility” with states: absent (1); present (9). Explanation (+) to be provided. To be indicated as QL. To be indicated as VS.  
Char. 36 To be indicated as QL. Latin name to be presented italics.

## 8. Explanations on the Table of Characteristics

To be updated in accordance with changes to the Table of Characteristics and, in addition:

- Ad. 6 Diagrams to be improved. Explanation to read “The leaf should be flattened as much as possible”.  
Ad. 18 Diagrams to be improved.  
Ad. 23 State 1 to read “not covered”; state 2 to read “partially covered”  
Ad. 36 Sentence to be introduced at beginning reading “Records must be taken under conditions of controlled infection.” The Office of the Union to propose some editorial changes to the existing text.

## 10. Technical Questionnaire

1.1 Options for different botanical types to be presented (see ASW 14(a))

4.2 To read:

“4.2.1 Seed-propagated varieties

- |                          |     |
|--------------------------|-----|
| “(a) Self-pollination    | [ ] |
| “(b) Cross-pollination   |     |
| (i) population           | [ ] |
| (ii) synthetic variety   | [ ] |
| “(c) Hybrid              | [ ] |
| “(d) Other               | [ ] |
| (please provide details) |     |

“4.2.2 Vegetatively propagated varieties [ ]

“4.2.3 Other [ ]  
(please provide details)”

## 5. General

To be updated in accordance with changes to the Table of Characteristics.

Male sterility to be added as an additional characteristic.

6. Example to be “Outer leaf: color (with wax)” with examples “yellow green” and “green”.

7.3 ASW 16 text to be deleted.

### *Carrot (Revision) (document TG/49/7(proj.1))*

\*39. The subgroup, chaired by Mr. Kees van Ettehoven (Netherlands), agreed the following changes to document TG/49/7(proj.1):

2.3 To read “The minimum quantity of plant material, to be supplied by the applicant, should be:

25 g or 30,000 seeds

2.4 To read “The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.” (ASW 1(b) Option 2)

3.1 Word “[similar]” to be deleted

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.”

4.2 The following sections to follow 4.2.1:

“4.2.2 Cross-pollinated varieties

The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.”

4.2.3 Single cross hybrids and self-pollinated varieties (inbred lines)

For the assessment of uniformity of single cross hybrids and self-pollinated varieties (inbred lines), a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 200 plants, 7 off-types are allowed.

#### 4.2.4 Hybrids

The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction. In the case of single cross hybrids, the uniformity standards are set out in section 4.2.3.”

5.3 Grouping characteristic (g): Char. 30 to be replaced by char. 29.

6.5 Legend for MG, MS, VG and VS to be added.

#### 7. Table of Characteristics

General “Carrot” to be replaced by “Root”.

Char. 1 To be indicated as QN.

Char. 2 To be indicated as QN. To have the states 1, 3, 5. State 5 to read “prostrate”.

Char. 3 To be indicated as QN. To be indicated as VG/MS. State 1 to have the example varieties “Mokum, Mignon”.

Char. 4 To be indicated as QN. States 1 and 9 to be deleted.

Char. 5 To be indicated as QN. Example variety to be provided for state 3.

Char. 6 To be indicated as QL. State 1 to have example variety “Amsterdam 2” and state 9 to have the example variety “Taranco”.

Char. 7 To be indicated as QN. To be indicated as VG/MS.

Char. 8 To be indicated as QN. To be indicated as VG/MS. Second example variety “Nantaise améliorée 2” to read “Nantaise améliorée 3” in state 5.

Char. 9 To be indicated as QN. To be indicated as VG/MS. To read “Root: ratio length/width” and all states and example varieties to be inverted.

Char. 10 To be indicated as PQ. To read “Root: shape in longitudinal section”. “Narrowly” to be replaced by “narrow” in states 4, 5 and 6. Second example variety for state 4 to read “De Colmar à Coeur rouge 3”.

Char. 11 To be indicated as PQ.

Char. 12 To be deleted.

Char. 13 To be indicated as QN. To read “Root: tip when fully developed”. Example varieties to be provided. State 2 to read “blunt to pointed”.

Char. 14 To be indicated as PQ. After state 3 to have: pinkish red (4); red (5); purple (6). Example varieties to be provided.

Char. 15 To be indicated as QN. Asterisk to be deleted.

Char. 16 To be indicated as QL. Example varieties “Buror” and “Purple haze” to be deleted. Example variety to be provided for state 1.

Char. 17 To be indicated as QN.

Char. 18 To be indicated as QN.

Char. 19 To be indicated as QN.

Char. 20 To be indicated as PQ. After state 3 to have: pinkish red (4); red (5). Example varieties to be provided for all states.

Char. 21 To be indicated as QN. Asterisk to be deleted.

Char. 22 To be indicated as PQ. After state 3 to have: pinkish red (4); red (5). Example varieties to be provided for all states.

Char. 23 To be indicated as QN. Asterisk to be deleted.

Char. 24 To be indicated as QN. Asterisk to be deleted.

- Char. 25 To be indicated as QN. To read “Root: extent of green coloration of interior (in longitudinal section)”. To have the states: absent or very small (1); small (3); medium (5); large (7); very large (9).
- Char. 26 To be indicated as QN. To replace “little” with “slight” in states 1 and 3 and “strong” with “much” in states 7 and 9. Example variety “Blanche à collet hors terre” to be added for state 9.
- Char. 27 To be indicated as QN. To be indicated as MS. To have the notes 3, 5, 7.
- Char. 28 To be indicated as QN. To be indicated as VG. (+) to be added with explanation. To have the notes 3, 5, 7.
- Char. 29 To be indicated as QN. To be indicated as VG. (\*) to be added. State 1 (very early) and state 9 (very late) to be added with example varieties to be provided. (+) to be added with explanation.
- Chars. 30 to 34 To be deleted.
- Char. 35 To be indicated as QN. To be indicated as VG.
- Char. 36 To be indicated as QN. To read “Plant: height of primary umbel at time of its flowering”. State 7 to read “tall”. In German, “Bolde” to be replaced by “Dolde”.
- Char. 37 To be indicated as QN.
- Char. 38 To be indicated as QL. “Anthers” to be replaced by “anther” in states 1 and 2.

## 8. Explanations on the Table of Characteristics

To be updated in accordance with changes to the Table of Characteristics and, in addition:

8.1(b) To read “Root: All observations on the root should be made when the root is fully developed”.

Ad 11 Illustration to be amended to show only the shoulder.

## 10. Technical Questionnaire

4.2 To read:

“4.2.1 Seed-propagated varieties

- |                           |     |
|---------------------------|-----|
| “(a) Self-pollination     | [ ] |
| “(b) Cross-pollination    |     |
| (i) population            | [ ] |
| (ii) synthetic variety    | [ ] |
| “(c) Hybrid               | [ ] |
| “(d) Other                | [ ] |
| (please provide details)” |     |

“4.2.2 Other [ ]”  
(please provide details)



5. General

To be updated in accordance with changes to the Table of Characteristics.

5.11 Char. 30 to be replaced by char. 29.

6. Example to be “Root: external color” with examples “orange” and “pinkish red”.

7.3 ASW 16 text to be deleted.

\*40. The subgroup agreed that the Test Guidelines should be reviewed to allow the introduction of a characteristic for *Alternaria dauci* as soon as the UPOV position on the acceptance of partial disease resistance was clarified.

*Chard/Leaf Beet (Revision) (document TG/106/4(proj.1))*

\*41. The subgroup, chaired by Mrs. Chrystelle Jouy Mondière (France), agreed the following changes to document TG/106/4(proj.1):

Cover page (Title) “Laef” to be amended to “Leaf”.

Cover page (Alternative Names) “L.” to be presented in normal font. Alternative botanical name to be added.

2.4 To read “The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.” (ASW 1(b) Option 2)

3.1 Word “[similar]” to be deleted

3.4.1 “... open ...” to be modified to “... the open ...”. “Glass house” to be replaced by “greenhouse”.

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 The following sections to follow 4.2.1:

“4.2.2 Cross-pollinated varieties

The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.”

4.2.3 Single cross hybrids and self-pollinated varieties (inbred lines)

For the assessment of uniformity of single cross hybrids and self-pollinated varieties (inbred lines), 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.

#### 4.2.4 Hybrids

The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction. In the case of single cross hybrids, the uniformity standards are set out in section 4.2.3.”

6.5 Legend for MG, MS, VG and VS to be added.

#### 7. Table of Characteristics

General Spelling of example variety “Verde de Niza” to be checked.

Char. 1	QL	
Char. 2	QN	
Char. 3	QN	Example variety to be provided for state 5.
Char. 4	QN	To have the states 1, 3, 5. State 3 to read “semi-erect” and example variety to be provided.
Char. 5	QN	(+) to be added and illustration provided. To be indicated as VG.
Char. 6	QN	To be indicated as VG. (+) to be added and illustration provided. Example variety to be provided for state 5.
Char. 7	QN	
Char. 8	QN	(*) to be deleted. State 1 to read “absent or very weak”. State 9 to be deleted.
Char. 9	QN	
Char. 10	QN	
Char. 11	QL	
Char. 12	QN	Asterisk to be deleted. “New” to be deleted.
Char. 13	QN	(+) to be added and illustration provided.
Char. 14	QN	(+) to be added and illustration provided.
Char. 15	QN	(+) to be added and illustration provided. To read “Petiole: curvature of inner side in cross section”. State 9 to be deleted.
Char. 16	PQ	“New” to be deleted. Example varieties for state 4 to read “Rhubarb Chard, Ruby Red”. Existing state 5 to be moved to after state 3. To be indicated as VG.
Char. 17	QN	

#### 10. Technical Questionnaire

4.2 To read:

“4.2.1 Seed-propagated varieties

- |                        |     |
|------------------------|-----|
| “(a) Self-pollination  | [ ] |
| “(b) Cross-pollination |     |
| (i) population         | [ ] |
| (ii) synthetic variety | [ ] |

- “(c) Hybrid [ ]  
“(d) Other [ ]  
(please provide details)

“4.2.2 Other [ ]  
(please provide details)”

## 5. General

To be updated in accordance with changes to the Table of Characteristics.

5.3 Spelling of “medium” to be corrected.

5.4 To be corrected.

6 Example to be “Petiole: color” with examples “pink” and “purple”.

*Parsnip (document TG/PARNSNIP(proj.1))*

\*42. The subgroup, chaired by Mr. Niall Green (United Kingdom), agreed the following changes to document TG/PARNSNIP(proj.1):

Cover page Common French, German and Spanish names to be provided.

2.3 To read “The minimum quantity of plant material, to be supplied by the applicant, should be:

100 g or 15,000 seeds

2.4 To read “The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.”

3.4.1 To read “Each test should be designed to result in a total of at least 200 plants, which should be divided between two or more replicates.”

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.”

4.2 The following sections to follow 4.2.1:

“4.2.2 Cross-pollinated varieties

The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.”

4.2.3 Single cross hybrids and self-pollinated varieties (inbred lines)

For the assessment of uniformity of single cross hybrids and self-pollinated varieties (inbred lines), a population standard of 2% and an acceptance probability of at least

95% should be applied. In the case of a sample size of 200 plants, 7 off-types are allowed.

#### 4.2.4 Hybrids

The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction. In the case of single cross hybrids, the uniformity standards are set out in section 4.2.3.”

5.3 Grouping characteristic (a): Char. 19 to be deleted. Chars. 16 and 17 to be added.

6.5 Legend for MG, MS, VG and VS to be added.

#### 7. Table of Characteristics

Char. 1	To be indicated as QN. To be indicated as VG. State 4 to read “semi erect to prostrate” and state 5 to read “prostrate”.
Char. 2	To be deleted.
Char. 3	To be indicated as QN. To be indicated as VG.
Char. 4	To be indicated as QN. To be indicated as VG.
Char. 5	To be indicated as QN. To be indicated as VG/MS.
Char. 6	To be indicated as QN. To be indicated as VG.
Char. 7	To be indicated as QN. To be indicated as VG/MS. (*) to be added.
Char. 8	To be indicated as QN. To be indicated as VG/MS. (*) to be added.
Char. 9	To be indicated as QN. To be indicated as MS.
Char. 10	To be indicated as QN. To be indicated as VG. (+) to be added and illustration provided.
Char. 11	To be indicated as QN. To be indicated as VG. (+) to be added and illustration provided.
Char. 12	To be indicated as QN. To be indicated as VG. To read “Leaflet: dentation of margin”.
Char. 13	To be indicated as QN. To be indicated as VG/MS.
Char. 14	To be indicated as QN. To be indicated as VG.
Char. 15	To be indicated as QN. To be indicated as VG/MS. (*) to be added.
Char. 16	To be indicated as QN. To be indicated as VG/MS. (*) to be added.
Char. 17	To be indicated as QN. To be indicated as VG/MS. (*) to be added.
Char. 18	To be indicated as QN. To be indicated as MS.
Char. 19	To be indicated as PQ. To be indicated as VG. (*) to be added. To have new state “obovate” added after “broad obtriangular” and renumbered as notes 1, 2, 3, 4. Example variety “Avonresister” to be given as example variety for new state 4.
Char. 20	To be deleted.
Char. 21	To be indicated as QN. To be indicated as VG. (*) to be added.
Char. 22	To be indicated as QN. To be indicated as VG.
Char. 23	To be indicated as PQ. Example varieties “Tender and True”, “Gladiator” and “Avonresister” to be added to states 1, 2 and 3 respectively. To be indicated as VG.

- Char. 24 To be indicated as QN. To be indicated as VG. Word “texture” to be deleted. State 1 (very smooth) and state 9 (very rough) to be added. Example varieties as follows; Javelin (1); Gladiator (3); White King (5); Avonresister (7); Exhibition Long (9).
- Char. 25 To be indicated as QN. To be indicated as VG.
- Char. 26 To be indicated as PQ. To be indicated as VG.

8. Explanations on the Table of Characteristics

To be updated in accordance with changes to the Table of Characteristics and, in addition:

8.1(a) To read “Leaf: All observations on the leaf should be made on fully developed plants before harvest maturity”.

Ad. 19/20 To be amended in line with changes to Table of Characteristics.

10. Technical Questionnaire

4.2 To read:

“4.2.1 Seed-propagated varieties

- |                          |     |
|--------------------------|-----|
| “(a) Self-pollination    | [ ] |
| “(b) Cross-pollination   |     |
| (i) population           | [ ] |
| (ii) synthetic variety   | [ ] |
| “(c) Hybrid              | [ ] |
| “(d) Other               | [ ] |
| (please provide details) |     |

“4.2.2 Other [ ]  
    (please provide details)”

5. General

To be updated in accordance with changes to the Table of Characteristics.

5.2 MS2 to be deleted as an example variety.  
New (after 5.3) Char. 17 to be added.

6. Example to be “Root: external color” with examples “whitish cream” and “cream”.

7.3 ASW 16 text to be deleted.

*Perilla* (document TG/PERILLA(proj.1))

\*43. The subgroup, chaired by Mr. Nico van Marrewijk (Netherlands), agreed the following changes to document TG/PERILLA(proj.1):

Cover page (Alternative Names) “Schwarznessel” to be added as German common name.

2.4 to read “In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.” (ASW 1(b) Option 2)

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 The following sections to follow 4.2.1:

“4.2.2 For the assessment of uniformity of mainly self-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 60 plants, 3 off-types are allowed.”

4.4 To be deleted.

5.3 Char. 3 to be added as a grouping characteristic.

6.4 Second sentence to be deleted.

6.5 Legend for MG, MS, VG and VS to be added.

7. Table of Characteristics

General Example variety “Perilla red (Sakata)” to be replaced. Capital letters to be replaced by lower case for states of expression.

Char. 1	QN	VG	
Char. 2	PQ	VG	To note that example varieties for states 2, 4 and 6 are not available.
Char. 3	PQ	VG	
Char. 4	QN	VG	“Harvest” to be deleted from title. State 9 to be deleted.
Char. 5	QN	VG/MS	
Char. 6	PQ	VG	To read “Stem: shape in cross section”. (+) to be added and illustration provided.
Char. 7	QN	VG	State 9 to be deleted.
Char. 8	QN	VG/MS	
Char. 9	QN	VG/MS	State 1 to be deleted.
Char. 10	PQ	VG	(+) to be added and illustration provided.
Char. 11	PQ	VG	(+) to be deleted. Note: Example variety for state 3 cannot be provided.

Char. 12	QN	VG	To read: "Leaf blade: intensity of color of upper side". Example variety "Ilyeup" to be checked. Example variety "Perro" to be added for state 7.
Char. 13			To be deleted.
Char. 14			To be deleted.
Char. 15	QL	VG	(+) to be deleted.
Char. 16	QN	VG	State 1 to read "very light".
Char. 17	QN	VG	State 5 to read "plane".
Char. 18	QN	VG	State 9 to be deleted.
Char. 19			To be deleted.
Char. 20	QN	VG	State 1 to read "very weak".
Char. 21	PQ	VG	spelling of incision to be corrected.
Char. 22	QN	VG	
Char. 23	PQ	VG	To have the states: terminal only (1); predominantly terminal (2); predominantly axilliar (3).
Char. 24	QN	VG	
Char. 25	QN	VG	To read "Inflorescence: length of clusters when most flowers are open".
Char. 26	QN	VG	
Char. 27	QL	VG	To have the states 1 and 2.
Char. 28	QN	VG	
Char. 29	QN	VG	State 9 to be deleted.
Char. 30	QN	VG	
Char. 31	QN	VG	(+) to be added and explanation provided. To check with Republic of Korea if characteristic provides useful discrimination beyond characteristic 30.
Char. 32	QN	MG	

8. Explanations on the Table of Characteristics

To be updated in accordance with changes to the Table of Characteristics and, in addition:

8.1(a) "full-grown" to be replaced by "fully grown".

10. Technical Questionnaire

4.2 To read:

"4.2.1 Seed-propagated varieties

"(a) Self-pollination [ ]

"(b) Other [ ]

(please provide details)

"4.2.2 Other [ ]

(please provide details)"

5. General

To be updated in accordance with changes to the Table of Characteristics.

5.5 To be deleted.

6. Example to be “Leaf blade: color of lower side” with examples “green” and “purplish”.

7.2.1 “Glasshouse” to be replaced by “greenhouse”.

7.3 ASW 16 text to be deleted.

*Watermelon (document TG/142/4(proj.1))*

\*44. The subgroup, chaired by Mrs. Zsuzsanna Füstös (Hungary), agreed the following changes to document TG/142/4(proj.1):

2.4 To read “The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority.” (ASW 1(b) Option 2)

3.1 The word “similar” to be removed.

3.4.1 The second sentence to be deleted.

4.2.2 The whole section to be deleted.

4.2.3 A population standard of 2% should be applied and the number of off-types allowed should be 2.

4.4 The whole section to be deleted.

6.5 Legend for MG, MS, VG and VS to be added.

7. Table of Characteristics:

Char. 1	QL	VS	(??) after “tetraploid to be deleted.
Char. 2	QN	VG	To read: “Seedling: shape of cotyledon”
Char. 3	QN	MS/VG	
Char. 4	QN	VG	To be retained
Char. 5	QL	VG	The asterisk to be deleted. Section in brackets to be deleted.
Char. 6			To be deleted
Char. 7			To be deleted
Char. 8			To be deleted
Char. 9	QN	MS	To read: “length of internode.” The word “bush” in state 1 to be deleted
Char. 10			To be deleted



Char. 11			To be deleted
Char. 12	QN	MS/VG	To read: “Leaf blade: length (on the 3 <sup>rd</sup> leaf when fully developed)”
Char. 13	QN	MS/VG	To read: “Leaf blade: width (as for 12)”; the asterisk to be deleted
Char. 14	QN	MS	To read: “Leaf blade: ratio length/width (as for 12)
Char. 15	PQ	VG	
Char. 16	QN	VG	NL to provide example varieties for state (3). The word “Delete” to be deleted
Char. 17	QN	VG	To read: “Leaf: degree of primary lobing”; (+) to be added and explanation to be provided; to receive example varieties named by HU; text “(after 5)” to be deleted
Char. 18	QN	VG	To read: “Leaf: degree of secondary lobing”; to have the states: “weak (3); medium (5); strong (7)”; explanation under Section 8 to be improved; the example variety “Sugar Baby” to be inserted for state (5)
Char. 19	QN	VG	To read “Leaf blade: blistering (on 10 <sup>th</sup> to 15 <sup>th</sup> leaves)”. The word “Delete” to be deleted
Char. 20			To be deleted
Char. 21	QN	VG	To read: “Leaf blade: marbling” with the states of expression “absent or weak (1), medium (2), strong (3)”
Char. 22	QN	MS/VG	“3 <sup>rd</sup> leaf” to be deleted
Char. 23			To be deleted
Char. 24			To be deleted
Char. 25			To be deleted
Char. 26	QN	VG	To read: “Ovary: size (at the time of flowering)”
Char. 27	QN	VG	FR to provide example varieties for state (3)
Char. 28	QN	MS	ES to provide example variety for state 2
Char. 29	PQ	VG	To read: “Fruit: shape in longitudinal section” with the states of expression “circular, broad elliptic, elliptic and elongated elliptic”
Char. 30	QL	VG	The state of expression “white” to be deleted
Char. 31	QN	VG	To read: Fruit: intensity of ground color of skin”
Char. 32			To be deleted
Char. 33	QN	VG	The asterisk to be deleted
Char. 34			To be deleted
Char. 35	QN	VG	To read: “Fruit: depression at base”. (+) to be added
Char. 36	PQ	VG	JP and KR to provide missing example varieties. (+) to be added
Char. 37	QN	VG	The word “profound” to be replaced by “deep”. (+) to be added
Char. 38	QN	VG	
Char. 39	PQ	VG	To read: “Fruit: distribution of grooves”. (*) to be deleted

New Char.	QN	VG	A new characteristic to be added reading: “Fruit: grooving” with the states of expression “weak (1), medium (2), strong (3)”. Example varieties to be provided
Char. 40	QL	VG	
New char.	QL	VG	A new characteristic to be added reading: “Fruit: type of stripes” with the states of expression “diffused (1) and clearly defined (2)”
Char. 41	QN	VG	To read: “ <u>Varieties with stripes only</u> : Fruit: intensity of color of stripes”
Char. 42	QN	VG	FR to provide additional example varieties for state (9)
Char. 43			To be deleted
Char. 44	QN	VG	The state of expression (1) to read: “absent or very weak”; to receive explanation from HU
Char. 45	QN	MS/VG	
Char. 46	PQ	VS	Example variety “Bingo” to be replaced by “ <u>Sadur</u> ”; a new state of expression “pinkish red” to be inserted with example varieties “Bingo, Crimson Sweet”; the state “purple” to be deleted
Char. 47	QN	VG	To read: “Fruit: main color of flesh”
Char. 48	QN	MS	To read: “Fruit: firmness of flesh”; to receive explanation from Japan
Char. 49	QN	VG	To read: “number of seeds” with the states of expression “absent or few (1), medium (2) and many (3)”
Char. 50	QN	MS/VG	To read: “Seed: size”
Char. 51	PQ	VG	To read: “Seed: ground color of testa”; the asterisk to be deleted
Char. 52	QL	VG	To read: “Seed: secondary color of testa”
Char. 53	PQ	VG	To read: “Seed: distribution of secondary color of testa”; the state “in dots and in patches” to be placed for note (2), HU to provide drawings
Char. 54	QN	VG	The range of states of expression to be extended to have notes 1 to 9
Char. 55	QL	VG	
Char. 56	QL	VG	To be deleted
Char. 57	QN	VG	The asterisk to be deleted
Char. 58	QN	VG	To read: “Time of maturity (50% of plants with at least one ripe fruit)
Char. 59	QL	VS	Information on the maintainers of the races to be provided
Char. 60	QL	VS	Information on the maintainers of the races to be provided

*Ginseng (document TG/GINSENG(proj.1))*

45. The TWV considered document TG/GINSENG(proj.1) up to characteristic 14 but did not have sufficient time to review the remainder of the document. It was agreed that written comments on document TG/GINSENG(proj.1), concerning characteristics 15 onwards, would be sent to the Office of the Union by August 1, 2003, and, together with the comments made at

the session, these would be sent to the leading expert from the Republic of Korea. The comments made at the session were as follows:

Cover Page      The Latin name should be checked.

1      Latin name to be checked.

2.3    The number of seeds corresponding to 0.4 liters to replace the volume.

2.4    The second sentence of this section should be deleted.

3.1    The TWV questioned why the minimum duration of tests was not two independent growing cycles as is the case in many vegetable species.

3.3.2 The second sentence to read: “It is recommended to use a field which has lain fallow for ten years after the cultivation of ginseng.”

3.4.1 To replace “three replicates” with “two replicates”.

4.2.2 The TWV questioned the use of such a low uniformity standard, i.e. population standard of 5% and an acceptance probability of 90%.

4.3.2 The words “seed or plant stock” should be replaced by “seed stock”.

6.5    Legend for MS, MG, VS, VG to be introduced.

7      Table of Characteristics:

Char. 1	QN	VG	To read: “Time of sprouting (when 50% of plants have sprouted)” and to be placed at the end of the Table of Characteristics
Char. 2	QN	MS	To read: “Plant: length of main stem”
Char. 3	QN	MS	To read: “Plant: number of plants with more than two stems”. Figures in brackets to be deleted and become an explanation under Section 8. (+) to be added
Char. 4	QL	VG	
Char. 5	QL	VG	To read: “ <u>Varieties with anthocyanin present only</u> : Stem: distribution of anthocyanin coloration”; to have the states: only at base (1); at base and upper part only (2); along whole length of stem (3); upper part only (4). (+) to be added and explanation provided
Char. 6	QN	MS	

Char. 7	QN	MS	To read: "Petioles: attitude in relation to main axis" with the states of expression "erect (1), semi-erect (3), horizontal (5)"
Char. 8	QN	MS	Figures in brackets to be deleted
Char. 9	QN	VG/MS	To read: "Leaf: length of central leaflet blade"; the drawings under Section 8 to be improved
Char. 10	QN	MS	To read: "Leaf: width of central leaflet". To receive explanation
Char. 11	PQ	VG	To read: "Leaf: shape of central leaflet" with the states of expression "broad elliptic (1), elliptic (2), spatulate (3)"
Char. 12	QN	VG	The word "horizontal" to be replaced with "plane"
Char. 13	QN	VG	To read: "Leaf: serration of margin of central leaflet"; example varieties to be provided
Char. 14	QN	VG	To read: "Leaf: occurrence of stipule"; (+) to be added and explanation provided. Figures in brackets to be deleted

*Husk Tomato (document TG/HUSK(proj.1))*

46. The subgroup, chaired by Mr. Salvador Montes (Mexico), agreed the following changes to TG/HUSK(proj.1).

Cover Page: Latin names should be "*Physalis philadelphica* Lam (Syn.: *Physalis ixocarpa* Brot.)." The French name should be "Tomatillo."

1 These Test Guidelines apply to all varieties of *Physalis philadelphica* Lam (Syn.: *Physalis ixocarpa* Brot.).

2.3 The minimum quantity of plant material should be 15 g or 2,500 to 3,000 seeds.

2.4 The second sentence of this section should be deleted.

3.4.1 Each test should be designed to result in at least 40 plants.

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.

4.2.2 A population standard of 5% should be applied and the number of off-types allowed, in the case of 40 plants, should be 4.

4.4 The whole section should be deleted.

7 Table of Characteristics:

General			Example varieties should be provided
Char. 1	QL	VG	
Char. 2	QN	VG	The word “prostrate” to be replaced with “horizontal”; to receive the notes “1, 2, 3”
Char. 3	QN	MS, VS	
Char. 4			To be deleted
Char. 5	QL	VG	
Char. 6	QN	VG	To read: “ <u>Varieties with anthocyanin coloration only</u> : intensity of anthocyanin coloration in internodes (as for 2)”
Char. 7	QN	VG	The asterisk to be deleted
Char. 8	PQ	VG	To read: “Leaf blade: shape”
Char. 9			To be deleted
Char. 10	QN	MS	To read: “Leaf blade: length”
Char. 11	QN	MS	To read: “Leaf blade: width”
Char. 12	QN	VG	To read: “Leaf blade: color” with states of expression “yellowish green (1), green (2), purplish green (3)”
Char. 13	QN	VG	To have the states of expression “weak, medium, strong”
Char. 14			To be deleted
Char. 15			To be deleted
Char. 16	QN	VG	
Char. 17	QN	MS/VG	
Char. 18	QN	VG	To read: “Time of flowering” and to be placed at the end of Section 7; to receive explanation
Char. 19	QN	VG	To read: “Flower: attitude of pedicel”; the states of expression for (7) and (9) to read “semi-drooping” and “drooping” respectively
Char. 20	QL	VG	To read: “Flower: color of anther”
Char. 21	QL	VG	To read: “Flower: anthocyanin coloration”
Char. 22	QN	VG	To read: Time of physiological maturity” and to be placed at the end of Section 7; explanation to be provided
Char. 23	QL	VG	To reconsider characteristics 23, 24 and 25
Char. 24	PQ	VG	See Char. 23
Char. 25	QN	VG	See Char. 23
Char. 26			To be deleted
Char. 27	PQ	VG	Explanation to be provided
Char. 28	QN	VG	To read: “Time of harvest maturity” and to be placed at the end of Section 7; explanation to be provided
Char. 29			To be deleted

Char. 30			To be deleted
Char. 31			To be deleted
Char. 32	QN	MS	
Char. 33	QN	MS	To have the states of expression “narrow, medium, broad”
Char. 34	QN	MS	
Char. 35	PQ	VG	Illustration to be provided
Char. 36	PQ	VG	To read: “Fruit: shape in cross section”; Illustration to be provided
Char. 37	QN	VG	
Char. 38	QN	MS	To read: “Fruit: number of locules” and the states of expression to be presented as in the TG for Tomato
Char. 39	QN	VG	To read: “Fruit: coverage of calyx” with the states of expression “absent (1), partial (2), entire (3)” and to receive explanation
Char. 40	QL	VG	
Char. 41	QL	VG	
Chars. 42 and 43	QN	VG	To be combined into one characteristic reading: Fruit: adherence of calyx” with the states of expression “absent or very weak (1), weak (3), medium (5), strong (7), very strong (9)”; to receive explanation
Char. 44	QN	VG	To read: “Fruit: depression at base (at physiological maturity)” and to be placed immediately before characteristic 27
Char. 45	QL	VG	To read : “Fruit: skin”
Char. 46			To be deleted
Char. 47	QN	MS	
Char. 48			To be deleted
Char. 49	QN	VG	To have the states of expression “small (3), medium (5) and large (7)”
Char. 50	QN	VG	To read: “Fruit: texture of flesh”; the word “sparse” to be replaced with “loose”; to receive explanation
Char. 51			To be deleted
Char. 52	QN	VG	To have the states of expression “low (3), medium (5), high (7)”
Char. 53	PQ	VG	
Char. 54			To be deleted
Char. 55			To be deleted
Char. 56	QN	MS	To read: “Seed: size” with the states of expression “small (3), medium (5), large (7)”

Chars. 57 QL VS The inclusion of characteristics 57 to 63 to 63 are subject to the precise definition of diseases (and races) and the provision of a precise protocol for their assessment.

*Melon (Revision) (document TG/104/5(proj.1))*

47. The subgroup, chaired by Mr. David Calvache Quesada (Spain), agreed the following changes to document TG/104/5(proj.1).

2.3 The minimum quantity of plant material to be 100 g or 2000 seeds. The formula should be deleted.

2.4 The second sentence should be deleted.

3.3.2 General explanation for the observation of color should be developed on the basis of Sections 3.3.2.1 and 3.3.2.2 for inclusion in an appropriate TGP document. The contents of Sections 3.3.2.2 and 3.3.2.3 should be inserted in Section 8 as an explanation for characteristics 13, 23, 29, 31, 52 and 58.

3.5 The number of plants / parts of plants to be observed should be 20.

4.2 The following section to be inserted after Section 4.2.1:

4.2.2 Vegetatively propagated, single cross hybrids and self pollinated varieties (in-bred lines)

For the assessment of uniformity of vegetatively propagated, single cross hybrids and self pollinated varieties (in-bred 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.

5.3.1 Characteristics 26 and 38 to be added as additional grouping characteristics

5.3.2 This section should be removed and inserted under Chapter 7 of the Technical Questionnaire.

Types of varieties of *Cucumis melo* L.: This table should be inserted under Section 8 and example varieties should be added for all types.

Section 7: Table of Characteristics:

General	France to provide additional example varieties
Char. 3	To read: "Seedling: intensity of green color of cotyledon"
Char. 4	To read: "Leaf blade: intensity of green color (in plants at the stage of 7 to 10 nodes)"; to remove "(b)" from the second column
Char. 6	To receive improved drawings
Char. 9	To be placed immediately before characteristic 4
Char. 10	To receive "(b)" in the second column; to receive states "1, 3, 5" and example varieties from FR and NL
Char. 11	To receive "(b)" in the second column

- Char. 12 To read: “Plant: sex expression (to be observed at full flowering)”
- Char. 13 To have the states: “whitish green, yellowish green, green, greyish green”
- Chars. 15 to 18 The words “Varieties with densely corked fruit at maturity only (see Char. 50)” should be deleted
- Char. 18 To read: “Young fruit: extent of groove coloring”
- Char. 19 To read: “Young fruit: intensity of groove coloring”
- Char. 22 To read: “Young fruit: extension of darker areas around peduncle” with the states of expression “absent or very small (1), small (3), medium (5), large (7), very large (9)”; NL to provide missing example varieties
- Char. 23 To read: “Changing from green to ripen fruit color” with the states “no change, or very late in the development of fruit (over-maturity) (1), late in the development of fruit (2) and early in the development of fruit (3)”
- Char. 27 To read: “Fruit: position of maximum diameter” with the states of expression “toward stem end (1), at middle (2) and toward blossom end (3)”; to replace (PQ) with (QN)
- Char. 28 To read: “Fruit: shape in longitudinal section”
- Chars. 29 to 31 To receive explanation to indicate the difference between ground color of skin (characteristics 29 and 30) and hues (characteristic 31)”
- Char. 30 To read: “Varieties with yellow, green or grey ground color of skin only: Fruit: intensity of ground color of skin”
- Char. 31 To receive the states of expression “green (1), white (2), grey (3), cream (4), yellow (5), orange (6), ocre (7)”; Types given in brackets to be replaced with appropriate variety names
- Chars. 32 and 35 The words “Varieties with non-corked or sparsely corked fruit only (see Ch. 50)” should be removed
- Char. 35 The state of expression “big” to be replaced with “large”
- Char. 36 To receive missing example varieties from NL
- Char. 38 To receive an asterisk
- Char. 39 To read: “Fruit: attachment to peduncle”; the example varieties for states 1 and 3 to be exchanged respectively with the example varieties for states 9 and 7
- Chars. 40 and 41 To receive illustration
- Char. 42 To receive the states of expression “absent or occasionally present (1), always present (2)”
- Char. 46 To receive missing example varieties from FR
- Char. 47 To receive (QL) and (VS); to retain the asterisk
- Char. 48 To receive missing example varieties
- Char. 49 The state of expression “in small dots” to be replaced with “in dots”
- Char. 50 The state of expression “absent or very sparse” to be replaced with “very sparse”
- Char. 51 To read: “Fruit: color of groove in relation to ground color”



- Char. 52 To read: “Fruit: color change after maturity” with the states  
“absent or very slow (1), slow (3), medium (5), fast (7)”
- Char. 53 To receive (QN) and (VS)
- Char. 54 To receive (PQ) and (VS); to receive the state of expression  
“reddish orange (4)” with the example variety “Magenta”
- Char. 57 To receive explanation

*Mushroom (document TG/MUSHROOM(proj.1))*

\*48. The TWV did not have sufficient time to consider document TG/MUSHROOM(proj.1).

*Rosemary (document TG/ROSEMARY(proj.1))*

\*49. The TWV did not have sufficient time to consider document TG/ROSEMARY(proj.1).

Discussion on Adopted Test Guidelines

*Celeriac (documents TWV/37/7, TG/74/4)*

\*50. Discussions were based on documents TWV/37/7 and TG/74/4.

\*51. The TWV agreed that a corrected version of TG/74/4 should be produced, in which the example variety “Prinz” would be deleted from state 5 of characteristic 6.

*Industrial Chicory (documents TWV/37/2 Rev., TG/172/3)*

\*52. Discussions were based on documents TWV/37/2 Rev. and TG/172/3.

\*53. The TWV agreed that TG/172/3 should be revised as follows:

7. Table of Characteristics

Char. 9 (\*) to be deleted.

Char. 17/ Ad. 17 To be amended to read “Root: total sugar content”

Char. 18 (\*) to be added.

New Char. To read “Male sterility” with the states: absent (1); present (9).

\*54. It was agreed that the expert from the Netherlands would prepare a draft of the revision for the next session of the TWV.

*Lettuce (documents TWV/37/3, TG/13/8)*

\*55. Discussions were based on documents TWV/37/3 and TG/13/8.

\*56. The TWV agreed that TG/13/8 should be revised as follows:

7. Table of Characteristics

New Char. (after 39.4) Isolate BI 14 to be introduced as a new characteristic.  
Char. 39.6 (BI 16) (\*) to be added.

An explanation that varieties susceptible to BI 16 would also be susceptible to races BI 17 to 24 (characteristics 39.7 to 39.12 and new characteristic below) to be provided.

New Char. (after 39.12) Isolate BI 24 to be introduced as a new characteristic.

### 8.3 Explanations for individual characteristics

To be updated in line with changes to the Table of Characteristics. In particular, “*Bremia* races” section on page 23 and table on page 24 to be updated.

#### *Vegetable Kale (documents TWV/37/4, TG/90/6(proj.1))*

\*57. Discussions were based on documents TWV/37/4 and TG/90/6(proj.1).

\*58. The TWV agreed that TG/90/6(proj.1) should be revised to cover only Curly Kale, which would result in the following changes:

Cover page Amend title to “Curly Kale” – *Brassica oleracea* L. var. *sabellica* L.

#### I. Subject of these Guidelines

To read “These Test Guidelines apply to all varieties of *Brassica oleracea* L. var. *sabellica* L.

#### V. Grouping of Varieties

Paragraph 2 (1) to be deleted.

#### VII. Table of Characteristics

Char. 7 State 5 to be deleted.  
Char. 8 State 5 to be deleted.  
Char. 14 To be deleted.

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

\*59. On the basis of the changes specified in paragraphs 22 to 29 and 40 to 43, the TWV agreed to send the following draft Test Guidelines for adoption by the Technical Committee at its fortieth session:

Brussels Sprout (Revision) document TG/54/7(proj.1)  
Cabbage (Revision) document TG/48/7(proj.1)  
Carrot (Revision) document TG/49/7(proj.1)  
Chard/Leaf Beet (Revision) document TG/106/4(proj.1)  
Lettuce (Revision) document TG/13/8

Parsnip	document TG/PARSNIP(proj.1)
Perilla	document TG/PERILLA(proj.1)
Vegetable Kale	documents TG/90/6(proj.1)
Watermelon (Revision)	document TG/142/4(proj.1).

\*60. The TWV agreed to re-discuss the following draft Test Guidelines at its thirty-eighth session:

Ginseng  
Husk Tomato  
Industrial Chicory  
Melon  
Mushroom  
Rosemary

\*61. The TWV agreed to start discussions on the following draft Test Guidelines at its thirty-eighth session:

Chickpea  
French Bean  
Parsley  
Pea  
Pepper  
Sweetcorn

\*62. It was agreed that the TWA should be invited to notify interested experts who would wish to contribute to the development of the draft Test Guidelines for French Bean and Pea.

\*63. The leading experts, interested experts and timetables for the development of the Test Guidelines, as set out in paragraphs 44 to 46, are set out in Annex II.

#### Date and Place of Next Session

\*64. At the invitation of the expert from the Republic of Korea, the TWV agreed to hold its thirty-eighth session in the Republic of Korea from June 7 to 11, 2004.

\*65. The Chairman informed the participants that Kenya and Slovakia had expressed an interest in hosting the TWV in 2005 and 2006, respectively.

#### Future Program

\*66. During the thirty-eighth 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:
  - Chickpea
  - French Bean
  - Ginseng
  - Husk Tomato
  - Industrial Chicory
  - Melon (Revision)
  - Mushroom
  - Parsley
  - Pea
  - Pepper
  - Rosemary
  - Sweetcorn
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

#### Excursions/Field Visits

67. In the afternoon of Wednesday, June 25, the TWV visited a breeding station of the Rijk Zwaan Holding in Fijnaart near Breda. The TWV also had the opportunity to visit different testing fields of the Naktuinbouw in Roelofarendsveen between the morning and afternoon sessions.

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

[Annex I follows]

## ANNEX I

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[Annex II follows]

## ANNEX II

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 according to the following schedule:

By August 22, 2003	All specified information to be sent to the Office of UPOV
April 2004	Adoption by the Technical Committee

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

Species	Relevant Documents	Leading Expert
Brussels Sprout (Revision)	TG/54/7(proj.1)	Mr. Niall Green (GB)
Cabbage (Revision)	TG/48/7(proj.1)	Mr. Kees van Ettehoven (NL)
Carrot (Revision)	TG/49/7(proj.1)	Mr. Kees van Ettehoven (NL)
Chard/Leaf Beet (Revision)	TG/106/4(proj.1)	Mrs. Chrystelle Jouy Mondière (FR)
Curly Kale	TG/90/6(proj.1)	Mr. Niall Green (GB)
Lettuce	TG/13/8	Mr. Kees van Ettehoven (NL)
Parsnip	TG/PARSNIP(proj.1)	Mr. Niall Green (GB)
Perilla	TG/PERILLA(proj.1)	Mr. Nico van Marrewijk (NL)
Watermelon (Revision)	TG/142/4(proj.1)	Ms. Zsuzsanna Füstös (HU)

SCHEDULE FOR THE PREPARATION  
OF DRAFT TEST GUIDELINES FOR THE NEXT SESSION

I. In the case of the following species, which were discussed at the 37<sup>th</sup> session of the TWV

Species	Existing Working Documents or Test Guidelines	Leading Expert	Participating Experts
Ginseng	TG/GINSENG(proj.1)	Mr. Keun-Jin Choi (KR)	DE, JP
Husk Tomato	TG/HUSK(proj.1)	Mr. Salvador Montes (MX)	FR, PL
Industrial Chicory	TG/172/3	Mr. Kees van Ettehoven (NL)	-
Melon	TG/104/5(proj.1)	Mr. David Calvache (ES)	BR, FR, GB, HU, JP, KR, NL, PL, SK, ISF
Rosemary	TG/ROSEMARY(proj.1)	Mr. Baruch Bar-Tel (IL)	DE

The following time schedule should be followed:

By October 1, 2003	All missing information and additional comments should be sent to the leading experts
By November 1, 2003	The leading experts should prepare a new draft and distribute it to the participating experts
By April 15, 2004	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 7 to 11, 2004	Discussion at the 38 <sup>th</sup> session of the TWV

In the case of Ginseng, which was partly discussed at the thirty-seventh session of the TWV and will be discussed by the TWA at its session in Tsukuba, Japan, in September 2003, and at a subgroup meeting during the fifth session of the Asian Regional Technical Meeting to be held in Hanoi, in early 2004, the following time schedule should be followed:

By August 1, 2003	All comments on document TG/GINSENG(proj.1) should be sent to the leading expert
By August 8, 2003	The leading experts should prepare a new draft and send it to the Office for the distribution to the TWA
September 8 to 12, 2003	Discussion at the TWA
March/April 2004	Discussion at a subgroup meeting at the fifth session of the Asian Regional Meeting
By April 15, 2004	The leading expert should submit the revised final draft in the new format to the Office for distribution to the members of the TWV
June 7 to 11, 2004	Discussion at the thirty-eighth 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
Chick Pea	TG/143/3	Mr. Richard Brand (FR)	ES, IL
French Bean	TG/12/3	Mr. François Boulineau (FR)	BR, CZ, DE, ES, JP, HU, NL, MX, PL, SK, CPVO, ISF
Parsley	TG/136/4	Mrs. Heide Heine (DE)	FR, HU, NL, PL, ISF
Pea	TG/7/9	Mr. Niall Green (GB)	CZ, FR, HU, JP, NL, PL, SK, CPVO, ISF
Pepper	TG/76/7	Ms. Zsuzsanna Füstös (HU)	CZ, ES, FR, JP, KR, MX, NL, PL, SK, CPVO, ISF
Sweetcorn		Ms. Zsuzsanna Füstös (HU)	FR, JP, NL, PL, SK, ISF

The following time schedule should be followed:

By November 30, 2003	The leading expert should prepare a Working Paper and distribute it to participating experts of the subgroup
By March 1, 2004	The participating experts should send comments and/or further contribution on the Working Paper to all experts in the subgroup
March/April 2004	Possible discussion at a subgroup meeting at the fifth session of the Asian Regional Meeting (Pepper)
By April 15, 2004	The leading experts should submit the revised final draft to the Office for distribution to the members of the TWV
June 7 to 11, 2004	Discussion in the thirty-eighth session of the TWV

[End of Annex II and of document]