



TWV/36/14

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

**TECHNICAL WORKING PARTY FOR VEGETABLES**

**Thirty-Sixth Session**  
**Tsukuba, Japan, September 9 to 13, 2002**

REPORT

*adopted by the Technical Working Party for Vegetables*

Opening of the Session

- \*1. The Technical Working Party for Vegetables (hereinafter referred to as "the TWV") held its thirty-sixth session in Tsukuba, Japan, from September 9 to 13, 2002. The list of participants is reproduced in Annex I to this report.
- \*2. The TWV was welcomed by Mr. Keiji Maruyama, Director of the Office of Examination, Seeds and Seedlings Division, Ministry of Agriculture, Forestry and Fisheries, and Mr. Kiyofumi Kuwana, President of the National Center for Seeds and Seedlings.
3. The session was opened by Ms. Julia Borys (Poland), Chairperson of the TWV, who welcomed the participants and, in particular, the participants from the Republic of Korea, which had become a UPOV member State on January 7, 2002, and the participants from Brazil and Colombia, who were participating for the first time in the meeting of the TWV.
4. Mr. Keiji Tanaka (Japan) made a short presentation on the plant variety protection system in Japan.

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\*The asterisked paragraphs in this draft report are reproduced from document  
the Conclusions).

Adoption of the Agenda

\*5. The TWV adopted the agenda as reproduced in document TWV/36/1 Rev., following agreement to follow the work plan proposed by the Chairperson.

Short Report on Developments in Plant Variety Protection

6. Reports from Members and Observers : The TWV received oral reports from the participants on developments in plant variety protection in their respective countries.

7. Legislation: The TWV noted that in Eastern European countries (Czech Republic, Hungary, Poland) the amendment of national laws was underway in order to bring them in conformity with the European Community Plant Variety Rights.

8. Organization of National Plant Variety Offices : The TWV noted that, in the Netherlands, the responsibility of the DUS trial for plant breeders' rights for vegetables had been transferred from Plant Research International to Naktuinbouw on January 15, 2002. The TWV also noted that, as of October 1, 2002, the Federal Plant Variety Office of Germany (Bundessortenamt) would be reorganized so that all work concerning the DUS testing would be conducted by a newly established DUS testing section and all work of the VCU testing would be done by a VCU testing section.

9. Variety Denomination: The TWV noted that the fourth Symposium on the Taxonomy of Cultivated Plants, held in Toronto in August 2002, had stressed the need for international cooperation in the field of the taxonomy of cultivated plants and had identified UPOV as one of the major international organizations in this field. It was further noted that the International Association on Cultivated Plant Taxonomy would be established later in 2002, which would act as a platform for the discussion on taxonomic questions. It was reported that the existing ISTA multilingual glossary of common plant names would be updated.

10. Variety Identification : The TWV noted that Naktuinbouw had developed a service called "Naktuinbouw Variety Tracer" to provide technical evidence of infringement of plant breeders' rights.

11. Disease Resistance : The TWV noted that the International Seed Federation (ISF) had established a working group to develop a harmonized system for the codification of seed packages and catalogues of disease resistance information. It was noted that the international harmonization of the strain codifications should be done urgently, and UPOV should cooperate in this field.

12. Image Analysis : The TWV noted that a study was underway in the United Kingdom on the use of image analysis applied to the measurement of stem and flower in peach characteristics.

13. Ring Test : The TWV noted that a ring test had been conducted in Slovenia with the participation of the Czech Republic, France, Hungary, the Netherlands, Poland and Slovakia to compare descriptions of 14 lettuce varieties. It was stressed that such a ring test was useful for the international harmonization of variety descriptions and for the drafting of Test Guidelines and should be considered for other crops.

14. Reports on Developments within UPOV : The TWV received an oral report from the Office of the Union on the latest developments in the Council, the Administrative and Legal Committee, the Technical Committee and the Technical Working Parties.

### Molecular Techniques

\*15. The TWV received an oral report from the Office of the Union on the latest developments in the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT ), the *Ad hoc* Crop Subgroups on Molecular Techniques and the BMT Review Group on the basis of documents BMT/7/19 Prov., TC/38/14 -CAJ/45/5 and TC/38/14 Add.-CAJ/45/5 Add. The TWV was further informed that the first meeting of the *Ad hoc* Crop Subgroup on Molecular Techniques for Mushroom would be held on the afternoon of Friday, September 13, 2002, and supported the nomination of Mr. van Marrewijk as chairman of the Subgroup.

16. Mr. Richard Brand, Chairman of the Crop Subgroup for Tomato, reported that the Subgroup for Tomato was exploring the possibility of using molecular techniques to replace certain conventional characteristics, such as disease resistance characteristics. The approach would follow Option 1(a) ( Use of molecular characteristics which are directly linked to traditional characteristics) as explained in document TC/38/14 -CAJ/45/5. Mr. Brand suggested that the possibility of applying molecular techniques for DUS testing should be examined under three circumstances as follows:

- (1) for species of which a large number of varieties seek protection (such as lettuce);
- (2) for species which have a small genetic variation (such as garlic);
- (3) for conventional characteristics which may have direct link to molecular markers (such as disease resistance, male sterility, corresponding to Option 1).

17. The TWV noted that consideration of the application of molecular techniques for DUS testing of vegetable varieties should take into account the specific circumstances under which vegetable varieties were tested. The limited financial resources available to study the applicability of molecular techniques should be taken into account when considering molecular techniques for DUS testing. Difficulty in exchanging data of tomato varieties between seed companies might make the establishment of a common protocol for the application of molecular techniques in tomato DUS testing even more difficult. The TWV also considered that a uniformity assessment should include a field trial, even when molecular techniques can be used for distinctness assessment.

18. It was also agreed that, once a protocol to use molecular techniques for DUS testing had been introduced for a particular species, all varieties of that species should be tested according to this protocol. There should be no exceptions in the application of this protocol.

19. Many experts of the TWV thought that Option 2, which could be used to reduce the number of varieties planted for pairwise comparison, could decrease the costs of DUS testing. It was agreed that it was essential to have data on both molecular and morphological characteristics in order to analyze usefulness of molecular techniques. It was noted that the DUS testing of species, such as lettuce and melon, might be organized in a more cost-efficient way through the management of reference collections using molecular data.

20. The TWV concluded that Option 1 (a) would be useful for the examination of certain characteristics in varieties of vegetable species, such as disease resistance and male sterility, and could be considered in conjunction with the discussion of individual Test Guidelines documents.

\*21. The TWV observed that the usefulness of Option 2 (Calibration of threshold levels for molecular characteristics against the minimum distance in traditional characteristics) for the management of reference varieties in DUS testing for vegetable varieties was worthy of examination. However, the examination by the TWV in this area would depend on the availability of data on both molecular and conventional distances.

\*22. The TWV noted the concern about possible effects of the introduction of molecular techniques for DUS testing on the work of certifying agencies responsible for checking the maintenance (uniformity and stability) of varieties.

\*23. The TWV recalled that, in the case of mushroom, the small number of available morphological assessment methods justified the consideration of the introduction of molecular techniques for DUS testing of that species. The TWV considered that real needs for the introduction of biochemical and molecular techniques to DUS testing for other vegetable species should be identified before further work is proposed.

#### Project to Consider the Publication of Variety Descriptions

24. The TWV received an oral report from the Office of the Union on the latest developments in the publication of variety descriptions. Some experts pointed to a possible link to ring tests, undertaken by some European countries, with respect to paragraph 13 of document TC/38/10 Add., Annex, for comparison of descriptions of vegetable varieties.

25. With regard to the selection of characteristics to be used in the project, the TWV noted that, within the European Union, the exchange of variety descriptions was being performed using grouping characteristics. In many cases, variety descriptions in seed catalogues or variety catalogues used grouping characteristics.

\*26. The TWV agreed that Lettuce and Chinese Cabbage be placed on the short list of species for which a model study could be conducted and noted that Mr. Kees van Ettekooven (Netherlands) and Mr. Keiji Tanaka (Japan) would act as coordinators of the respective crop species. The TWV noted further that Germany, Japan, the Netherlands, the Republic of Korea, Poland, the Community Plant Variety Office (CPVO) and the International Seed Federation (ISF) would wish to participate in a model study on Chinese Cabbage while the Czech Republic, Germany, Hungary, the Netherlands, Poland, Spain, the CPVO and the ISF would wish to participate in a model study on lettuce.

#### UPOV Databases

27. The TWV received an oral report from the Office of the Union on the latest developments in the UPOV databases on the basis of document TC/38/6.

28. The TWV noted the importance of harmonizing the taxonomy and the necessity of establishing a stabilized list of common and Latin names of species. The TWV appreciated

the work currently underway on the preparation of unique identifiers in the form of a UPOV Taxon Code.

### TGP Documents

- (a) TGP Documents to which the Technical Committee has given highest priority for discussion

#### TGP/7.1: Guidance for Drafters of Test Guidelines

\*29. The TWV observed that the current presentation of document TGP/7.1 might give the impression to the drafters that all additional standard wordings (ASWs) should be used in UPOV Test Guidelines. However, the objective of the document was to provide guidance in order to maintain a minimum level of harmonization in the layout and the wording used in Test Guidelines. The TWV observed that document TGP/7.1 could be improved to make it clear that the additional standard wording should be used only when necessary and as appropriate and this would never force the drafter to include the information indicated by the headings of the additional standard wording.

\*30. The TWV further agreed to the following changes in document TGP/7/1:

ASW 1 (TGP/7.2: Section 2.3) – Seed quality requirement: The second sentence should be amended to read: “In cases where the seed is to be stored, the germination capacity should be as high as possible and should, if possible, be stated by the applicant.”

ASW 6 (TGP/7.2: Section 4.3.3) – Stability assessment of hybrid varieties: An additional sentence referring to the stability assessment of parental lines should be added reading: “The stability of a parental line may, in addition to an examination of parental lines itself, also be assessed by examination of the uniformity and stability of its hybrids.”

ASW 9 (TGP/7.2: Section TQ 4.2) – Information on method of propagating hybrid varieties: The last line should read: “(b) maintenance system of male sterile lines.”

\*31. The TWV further considered GN 14 (TGP/7/2: Section 7) – Table of Characteristics: Handling of a long list of characteristics, and observed that it should be stated clearly that a consensus should be required for the inclusion of characteristics fulfilling the criteria in order to avoid automatic adoption of such characteristics. The TWV further agreed in general to the following:

- (i) a list of characteristics longer than necessary should be avoided;
- (ii) characteristics proposed but not adopted as standard Test Guidelines characteristics could be placed on a list, which would be then placed on the UPOV Website for further consideration and/or eventual adoption in future as standard Test Guidelines characteristics.

TGP/7.2: TGTemplate

\*32. The TWV agreed to endorse document TGP/7.2 as agreed by the Technical Committee including the newly drafted Annex to the Technical Questionnaire.

TGP/7.3.1: Standardized UPOV Terms and Explanations – Types of Expression of Characteristics

TGP/7.3.2: Standardized UPOV Terms of Explanations – Harmonized States of Expression of Characteristics

\*33. The TWV agreed to send comments on the documents mentioned above to the Office of the Union before the end of the year 2002.

TGP/7.4: Procedures for the Introduction and Revision of Test Guidelines

\*34. The TWV noted the importance of establishing procedures in a written form to ensure transparency and full participation of members of the Technical Committee and its observers in the process of the introduction and revision of Test Guidelines. The TWV agreed, however, that the proposed procedures should be improved by taking into account the following general comments made during the discussion:

(i) Initiatives of Technical Working Parties in the drafting and revision of Test Guidelines would be affected by the proposed procedures, in particular, through the approval procedures included in Steps 1 to 3.

(ii) The proposed procedures may lead to the imposition of an additional burden on Technical Working Parties.

(iii) It would be necessary to include a mechanism to respect the priority and expertise of the Technical Working Party concerned when allocating drafting work.

(iv) Criteria for the prioritization should be clearly formulated.

(v) Parties having requested the introduction and revision of Test Guidelines should be prepared to contribute to the work.

\*35. In connection to the discussion on document TGP/7, the TWV noted that the procedures between the adoption of draft Test Guidelines and their publication were not clear and might need to be clarified, especially when draft Test Guidelines have been adopted subject to the inclusion of additional information to be provided by the leading expert. The TWV proposed that the decision taken by the Technical Committee, including the instruction to the leading expert, be circulated to the interested experts of the Technical Working Parties concerned.

\*36. The TWV proposed that questionnaires be prepared to ask for opinions of Technical Working Parties on their mid-term work plan with respect to the establishment and/or revision of Test Guidelines.

(b) Other TGP Documents

TGP/4.1: General Guidance for the Management of Variety Collections

\*37. The TWV noted that the coverage of this document overlapped with that of document TGP/9.3.1, and thought that a restructuring might be necessary. Furthermore, the TWV agreed that paragraph 13(a)(ii) should read: “access to a representative sample of plant material of the variety .”

TGP/9.1.1: General Procedures for Determining Distinctness: Official Testing

TGP/9.1.2.1: General Procedures for Determining Distinctness: Breeder Testing (Australia)

TGP/9.1.2.2: General Procedures for Determining Distinctness: With the Participation of Breeders (France)

\*38. The TWV noted the documents mentioned above, without making any specific comments.

TGP/9.1.3: General Procedures for Determining Distinctness: General

\*39. The TWV made the following remarks in the Table:

Page 4: The superscript given to the word “Cross-pollinated” should be moved to the word “Obs” in the column for the second growing cycle.

Page 5: The indication of the possibility of the rejection for any variety with an erroneous TQ description may be interpreted in various way and thus should be redrafted to avoid any misunderstanding.

TGP/9.3.1: Consideration of All Varieties of Common Knowledge in the Examination of Distinctness

\*40. Mr. Kees van Ettehoven introduced the document. The TWV noted a similarity in the contents of this document to document TGP/4.1: General Guidance for the Management of Variety Collection and suggested a possible reorganization of the structure of the TGP documents.

TGP/9.3.2: The Use of ‘Phenotypic Distance’ for Examining Distinctness

\*41. The TWV noted the following general comments made during the discussion:

(i) the determination of the weight applied to each characteristic is important and should be carefully done by crop experts with sufficient knowledge of the crop species concerned;

(ii) the result of the application of the proposed GAIA system should be examined in conjunction with the application of COYD analysis.

42. Mr. David Calvache (Spain ) observed that the design of a software to estimate “phenotypical distances” was quite an interesting objective. However, when considering the possible use of “phenotypical distances” for pre -screening, measuring correlation with genotypical distances, a sssessment of distinctness etc., the following should be taken into account:

(i) The majority of phenotypical characteristics were not independent. There were many linkages and redundancies which needed to be considered. Thus the weight of differences must be measured, not in individual characteristics, but in groups of characteristics. If not, the proportionality could be disturbed;

(ii) The weight given for each characteristic in the matrix would vary depending on the statistical significance of the different notes in the circumstances of each trial. To use the phenotypical distance for distinctness, a correction factor would need to be introduced for each trial;

(iii) If it would not be possible to study the weight in “clusters” of characteristics, the phenotypical distances would not be useful for correlation with genotypical distances because the proportionality would be lost;

(iv) It might be difficult for different experts to reach agreement with respect to the relative weight of different characteristics, because this would be a subjective estimation.

\*43. The TWV noted, with appreciation, that France would examine the applicability of GAIA system to forage pea varieties for the next session.

TGP/9/4.1: Examining Distinctness in Different Types of Variety: General

TGP/10.2: Assessing Uniformity According to the Features of Propagation

\*44. The TWV noted the documents mentioned above, without making any specific comments. The members of the TWV were invited to send comments on the documents to the Office as soon as possible so that those comments could be considered by the Technical Working Party for Agricultural Crops.

(c) TGP Documents in which the TWV is involved in drafting

TGP/12.1: Characteristics Expressed in Response to External Factors: Disease Resistance

\*45. Mr. Kees van Ettekoven (Netherlands) introduced the document. The TWV agreed to the following changes to be incorporated in the document:

Paragraphs

4. To read : “The decreasing input from science on the taxonomy of the diseases and of the strains of diseases ~~is decreasing rapidly~~ around the world is compensated by the input of phytologists from DUS testing institutes and seed companies.”

13. The last sentence to read : “It has to be avoided that the heterogeneity introduced through to attribute the trial is blamed indeed heterogeneity to the candidate variety.”



15. The second sentence to read : “Therefore, ~~In fact in many cases~~— disease characteristics ~~may~~ are often be used as grouping characteristics.”

16. The last sentence to be deleted.

17. (g) to read : “the availability of reliable inoculum and host differential set”

21. The second indent to read : “The applicant/breeder may be requested to carry out a blind disease test with coded samples including the candidate variety and a number of also coded control samples as susceptible and resistant controls on the basis of a clear control.”

#### TGP/12.4: Examination of Scent and Flavor Characteristics

\*46. The TWV recalled that it had proposed at its thirty -fifth session that a separate TGP document be prepared on scent and flavor, but it still needed to nominate a drafter. The TWV felt, however, that it did not have sufficient experience and knowledge , for the time being, to use scent or flavor characteristics for the conduct of DUS testing for vegetable varieties.

#### TGP/8.6: Examining DUS in Bulk Samples

\*47. The TWV agreed to send comments to the Office of the Union before the end of the year.

(d) Other TGP documents

#### TGP/3.2: Developments and Explanations Regarding Varieties of Common Knowledge

\*48. The TWV observed that the contents of the existing drafts of the document groups under TGP/3 and TGP/4 were duplicated in several areas. It was considered that the objectives of TGP/3 would be to explain the legal background of variety of common knowledge on the basis of provisions of the UPOV Convention while the objectives of TGP/4 would be to give practical guidance to DUS testing authorities when establishing reference collection. The TWV, being aware of the close link between TGP/3 and TGP/4, thought, however, that a clear functional division should be respected.

#### TGP/8.4: Types of Characteristics and Their Scale Levels

\*49. The TWV agreed to send comments to the Office of the Union as soon as possible so that other Technical Working Parties could consider its comments.

#### Discussion on Test Guidelines

\*50. The Working Group welcomed the ten participants of the JICA training course on plant breeders' rights as observers in discussions of Test Guidelines.

Lettuce(Revision)

51. The TWV discussed the draft Test Guidelines for Lettuce in its plenary session. The TWV recalled that, at its thirty -eighth session in April 2001, the Technical Committee had decided that the draft Lettuce Test Guidelines should be sent back to the TWV, having noted that the draft was still incomplete with respect to the *Bremia* resistance characteristics and in the light of comments made by professional organizations, containing proposals for substantial changes (additional disease characteristics, revision of reference varieties). The TWV discussed and agreed the following substantial changes to draft Test Guidelines document (TG/13/8(proj.2)):

(a) Material Required : to add “or at least 2,000 seeds” after “20 g” in paragraph 1.

(b) Table of Characteristics :

Characteristic 2	To receive explanation in Chapter VIII
Characteristic 6	To receive explanation from the Netherlands for inclusion in Chapter VIII
Characteristic 9	To insert the example variety “Colorado” for state 1
Characteristic 12	To read: “ <u>Butterhead types in glass house only</u> : Head: closing of base”
Characteristic 18	To read: “Leaf: hue of green color” with the states of expression and the example varieties “absent (Donatella, Verpia), yellowish (Dorée de printemps), greyish (Celtuce, Du bon jardinier), reddish (Lollo Rossa, Revolution, Rosa)”
Characteristic 25	To be deleted
Characteristic 40.1	To be replaced with “Isolate B12” with the states of expression and the example varieties “absent (Hilde II) and present (Ninja)”
Characteristic 40.2	To be replaced with “Isolate B15” with the states of expression and the example varieties “absent (Hilde II) and present (Sabine)”
Characteristic 40.3	To be replaced with “Isolate B17” with the states of expression and the example varieties “absent (Hilde II) and present (Verpia)”
Characteristic 40.4	To read: “Isolate B12”
Characteristics 40.5, 40.6, 40.8, 40.9, 40.10, 40.14	To be deleted
Characteristic 40.7	To read: “Isolate B15”

Characteristic 40.18 To insert the example variety “Colorado” for state 9.

52. The TWV agreed further not to include Lettuce Big Vein Mosaic Virus (LBVM), *Bremialactuae* Isolate BI24 and *Nasonovia* in the Test Guidelines for Lettuce at this stage, but to consider these characteristics for inclusion in the near future.

53. For the other Test Guidelines, two Subgroups were established to expedite the development of draft Test Guidelines. The Subgroups were as follows <sup>1</sup>:

(a) Subgroup I:

Chinese Cabbage	(Mr. Tanaka, Japan)
Basil	(Mr. Brand, France)
Chives	(Mrs. Safarikova, Czech Republic)
Chinese Chives	(Mr. Tanaka, Japan)
Endive	(Mr. Brand, France)
Lentil	(Mr. Brand, France)

(b) Subgroup II:

Broad Bean	(Mr. Green, United Kingdom)
Runner Bean	(Mr. van Ettehoven, Netherlands)
Melon	(Mr. Calvache, Spain)
Perilla	(Mr. van Marrewijk, Netherlands)
Mushroom	(Mr. van Marrewijk, Netherlands).

54. The results of the Subgroups were reported to the TWV meeting in plenary as follows:

Chinese Cabbage

55. The TWV reviewed document TWV/36/2 and made the following substantial changes:

(a) Subject of these Guidelines: to include *Brassica rapa* L. *spp. pekinensis* and *Brassica campestris* L. *spp. pekinensis*, as synonyms.

(b) Materials Required: In paragraph 1, the last sentence to read: “The minimum quantity of seed to be supplied by the applicant in one or several samples should be 20 kg (or at least 5,000 seeds)”.

(c) Table of Characteristics:

Characteristic 1	To read: “Plant: habit” and to receive new drawings
Characteristic 7	To read: “Outer leaf: number of blisters on upper side”
Characteristic 8	To read: “Outer leaf: size of blisters on upper side”

<sup>1</sup> The name of the leading expert is inserted in the brackets.

Characteristic 16 To have states of expression “absent (1), intermediate (2) and strong (3).”

Basil

56. The TWV reviewed document TWV/36/10 and made the following substantial changes:

(a) Material required: the quantity of seeds to be “6 g (or at least 4,000 seeds).”

(b) Methods and Observations: paragraph 3 to read: “All observations on the plant and on the leaf should be made on fully developed plants and leaves, respectively.”

(c) Table of Characteristics:

Characteristic 1 To read: “Plant: growth habit” with the states of expression “rounded (1), intermediate (2) and erect (3)”; to insert the example variety “Bubikopf”; to receive new drawings from France

Characteristic 7 To read: “Stem: number of flowering shoots (at full flowering); to receive new drawings from France

Characteristic 8 To reverse the order of states of expression “ovate” and “broad ovate”; to receive new drawings from France

Characteristic 12 To be placed after characteristic 14; to add a new characteristic reading: “Leaf blade: extent of anthocyanin coloration” with the states of expression “weak, medium and strong” with example varieties to be provided from Germany

Characteristic 13 To be placed after characteristic 11

Characteristic 14 To have the states of expression “few mottles (1), many mottles (2), total surface (3)” with example varieties for states (1) and (2) to be provided from Germany and the example variety “Purple Ruffles” for state (3)

Characteristics 16,17 To be combined into one new characteristic reading: “Leaf blade: blistering” with the states of expression and the example varieties “absent or very weak (Fin vert nain compact), weak (Dark Opal, Keskenylevü), medium (Genovese, Grand vert), strong (Afeuille delaitue, Purple Ruffles)”

Characteristic 18 To read: “Leaf blade: profile in cross section”

Characteristic 19 To read: “Leaf blade: serration of margin”

Characteristic 20 To read: “Leaf blade: depth of serration”

- Characteristics 21,22 To be merged into one new characteristic reading: “Leafblade: undulation of margin” with the states of expression and the example varieties “absent or very weak (Grand vert), weak (to be provided from France), medium (Osmin, Rubin), strong (Purple Ruffles)”
- Characteristic 22 After characteristic 22, a new characteristic to be inserted reading: “Petiole: length” with the states of expression and the example varieties “short (Oase, Osmin), short to medium, medium (Genovese), medium to long (Salattaltuges, Afeuille de laitue)”
- Characteristic 23 To read: “Flowering stem: average length of internodes (at the end of flowering)”; to receive new drawings
- Characteristic 24 To read: “Flowering stem: total length (at the end of flowering)”
- Characteristic 26 To check the proposal to insert the new state of expression “pink” as a state clearly separate from “light violet”
- Characteristic 26 After characteristic 26, a new characteristic to be inserted reading: “Flower: color of style” with the states of expression and example varieties “white (Genovese, Rubin), light violet (Opal, lemon)”
- Characteristic 27 To read: “Time of flowering (10% of plants flowering).”

### Chives

57. The TWV reviewed document TWV/36/6 and made the following substantial changes:

(a) Material Required: the minimum quantity of seeds to be provided to be “6 g (or at least 5,000 seeds)”.

(b) Table of Characteristics

- Characteristic 1 The variety name “NOE -198” to be checked by the expert from Poland
- Characteristic 2 To read: “Plant: number of leaves”
- Characteristic 3 To remove the example variety “NOE -198”
- Characteristic 4 To read: “Leaf: curvature”
- Characteristic 6 The states of expression to read: “yellow green, true green, blue green”

Characteristic 10	To read: “Leaf: diameter” with the states of expression on “small, medium, large”
Characteristic 11	To have the states of expression and the example varieties “circular (Bohemia, Kirdo), elliptic (Polyvert)”; to receive modified drawings
Characteristic 14	To receive example varieties from the Czech Republic
Characteristic 15	To be deleted
Characteristic 16	To read: “Inflorescence: diameter”
Characteristic 17	To read: “Plant: height at flowering stage”
Characteristic 18	To read: “Time of sprouting (10% of the plants show sprouting)”; to receive drawings
Characteristic 20	To read: “Time of beginning of flowering (10% of the plants show flowers)”
Characteristic 21	To read: “Time of drying out of leaves (10% of the plants show dried-out leaves)”; to receive example varieties, and explanation
Characteristic 22	To be checked with the expert from Germany with respect of the uniformity of this characteristic

### Chinese Chives

58. The TWV reviewed document TWV/36/9 and made the following substantial changes:

(a) Material Required: for seed -propagated varieties, the minimum quantity of seeds to be provided to be “20 g (or at least 3,000 seeds)”.

(b) Methods and Observation:

Paragraph 2: To introduce two uniformity standards: one for seed -propagated varieties, which should be tested as a cross -pollinating (allogamous) species, and the other one for vegetatively propagated varieties with a population standard of 1% and an acceptance probability of at least 95%.

Paragraph 3: To read: “Unless otherwise indicated, all observations on the plant and the leaf should be made at harvest maturity.”

(c) Table of Characteristics

Characteristic 1 To read: “Leaf: attitude” with the states of expression “erect (1), erect to semi -erect (2), semi -erect (3), semi -erect to horizontal (4) and horizontal (5)” with example varieties to be provided

- from Japan for states 2, 3 and 4; to receive new drawings; to be placed after characteristic 3
- Characteristic 2 To have states of expression “short, medium, high”
- Characteristic 3 To read: “ Seed-propagated varieties only: Plant: number of tillers”
- Characteristic 6 To have the states of expression “light, medium, dark”
- Characteristic 9 To read: “Leaf blade: drooping of tip” with the states of expression “weak, medium, strong”
- Characteristic 10 To have the states of expression “weak, medium, strong”
- Characteristics 11-15 The words “leaf sheath” to be replaced by “pseudo -stem”
- Characteristic 11 The order of the states of expression to be reversed
- Characteristic 13 To read: “Pseudo -stem: maximum width” with the states of expression “narrow, medium, broad”
- Characteristic 14 To read: “Pseudo -stem: predominant color” with the states of expression “white(1), greenish(2)”
- Characteristic 15 To read: “Pseudo -stem: number of leaves”
- Characteristics 16, 17: The words “flower stalk” to be replaced by “flowering stem”
- Characteristic 16 To have the notes “3, 5, 7”
- Characteristic 18 To read: “Plant: number of flowering stems”; to be placed immediately after characteristic 3

(d) Literature: to insert literature provided by the Netherlands.

### Endive

59. The TWV reviewed documents TG/118/3 and TWV/36/11, and agreed to make the following substantial changes to document TG/118/3:

- (a) Material Required: for seed -propagated varieties, the minimum quantity of seeds to be provided to be “20 g (or at least 10,400 seeds)”.
- (b) Methods and Observations: the uniformity standards to be given on the basis of a population standard of 2% and an acceptance probability of at least 95%.
- (c) Grouping of Varieties: varieties firstly to be grouped according to the following plant types: Plain type; Wallonnet type (non -plain); Louviert type (non -plain); D’été à cœur

jaune type; other types; and secondly, to be grouped by using characteristics 3, 29, 31; explanation on different types to be prepared by the experts from France and the Netherlands.

(d) Table of Characteristics :

Characteristic 2	To receive the states of expression “erect (1), semi -erect (3), horizontal(5)”
Characteristic 6	To be deleted
Characteristic 7	To have the notes “1,3,5”
Characteristic 12	The words “true green” for note (2) to be checked by the Editorial Committee
Characteristics 14,15	To be deleted
Characteristics 16, 21 and 23	The limitation to read: “ <u>Varieties of non -plain types only</u> ”
Characteristic 21	To read: “ <u>Varieties of non -plain types only</u> : Leaf: ratio of length of midrib without lamina/total length of leaf”
Characteristic 22	To read: “Leaf: width of midrib at base”
Characteristic 23	To read: “ <u>Varieties of non -plain types only</u> : Leaf: color of midrib at base”
Characteristic 25	To be deleted
Characteristic 27	To read: “Stem: attitude of branches” with the states of expression and example varieties “erect(1), semi -erect(3, D’été d’Anjou), horizontal(5, Canta, Emilie, Ariga)”
Characteristic 29	To add the example varieties “Ariga, Sally” to the state “violet blue”
Characteristic 30	To insert example varieties to be provided by France
Characteristic 31	To extend the range of the states of expression to include “very late” with example varieties to be provided by the experts from France; to delete the example varieties “Argentée Mirabel;” to add the example varieties “Elody, Sally” to the state “medium.”

Lentil

60. The TWV reviewed document TWV/36/12 and made the following substantial changes:

(a) Material Required : for seed -propagated varieties, the minimum quantity of seeds to be provided to be “500 g (or at least 10,000 seeds).”



(b) Grouping of Varieties : characteristics 1,4,14,30a and 31 to be used for grouping varieties.

(c) Table of Characteristics :

Characteristic 2	To be deleted
Characteristic 3	To have the states of expression “erect, semi-erect, horizontal;” to receive example varieties for “semi-erect”
Characteristic 4	To add the example variety “PSE2” to the state “absent”
Characteristic 7	To be deleted
Characteristic 8	To have the states of expression “ovate, ovate-oblong, rectangular;” to receive drawings
Characteristic 9	To read: “Leaf: intensity of green color” with the states of expression “light, medium, dark”
Characteristic 10	To have the states of expression “very few, few, medium, many, very many;” to receive explanation
Characteristic 11	To read: “Leaflet: size”
Characteristic 12	To have the states of expression and the example varieties “one (example varieties still to be provided), one to two (example varieties still to be provided), two (Lentillon rosé d’hiver), two to three (Anicia, Petrovskaya 4/105), three (example varieties still to be provided), more than three (PSE2)”
Characteristic 16	To be checked if “ <i>Culinaris ssp. macrosperma</i> ” is a listed variety
Characteristics 17-20	To be deleted
Characteristic 21	To have the states of expression “light, medium, dark”
Characteristic 22	To add the example varieties “Anita, Tina” to the state “1 to 2” and “Izka” to the state “generally 2”
Characteristic 24	To read: “Pod: length at harvest maturity (without beak)”
Characteristic 25	To add the example varieties “Anita, Tina, Izka” to the state “medium”
Characteristic 27	To be deleted
Characteristic 28	To have the states of expression “very narrow, narrow, medium, broad, very broad;” to receive an asterisk

- Characteristic 29 To read: “Dry seed: profile in longitudinal cross section” with the states of expression “elliptic, broad elliptic”
- Characteristic 30 To have the states of expression “one, two, more than two;” to receive an asterisk
- Characteristic 31 To have the states of expression and the example varieties “white (PSE2), greenish yellow (Anita, Izka, Petrovskaya 4/105, Pisarevska Velkozna), green (Tina, Anicia, Petrovskaya zelenozornaya), pink (Rosovaya), ochre (Lentillon rosé d’hiver), black (Nigricans)
- Characteristics 32,33 To be deleted
- Characteristic 34 To read: “ Varieties with more than one color only : Dry seed: type of ornamentation;” to receive explanation
- Characteristic 35 To read: “Dry seed: weight;” to add the example varieties “Anita, Izka” to the state “medium” and “Tina” to the state “high”
- Characteristic 36 To add the example varieties “Anita, Tina, Izka” to the state “early”
- Characteristic 37 To delete the asterisk

### Broad Bean

61. The TWV reviewed document TWV/36/8 and made the following substantial changes:

(a) General: the growth stage indicated in the Table of Characteristics in Chapter VII and explained in Chapter VIII should be the same as that used in draft Test Guidelines for Field Bean (document TG/8/6 (proj.)) entitled “Phenological growth stages and BBCH-identification keys of *Vicia faba* L. (Meier, 1997).”

(b) Grouping of Varieties: characteristic 19b “Plant: growth habit” to be added as an additional grouping characteristic.

(c) Table of Characteristics:

- Header: To replace “plot” with “Growth Stage”
- Characteristic 2 To correct the spelling of the example variety “Imperial White Windsor”
- Characteristic 4 To delete the example variety “Ite”
- Characteristic 5 To have the states of expression “absent(1), present(2)”

Characteristic 6	To read: “Foliage: greyish hue of green color” with the states of expression “absent (Metissa), present (Osnaweiss)”
Characteristic 7	To read: “Foliage: intensity of color;” to delete the example variety “Gruno”
Characteristic 8	To read: “leaflet: length (basal pair of leaflets at second flowering node)”
Characteristic 16	To have the states of expression in the order of “greenish yellow, brown, black”
Characteristic 18b	To be deleted
Characteristic 19b	To correct the spelling of the example variety “Smerf;” to be placed immediately before characteristic 2
Characteristic 20	To delete the asterisk
Characteristic 23	To be deleted
Characteristic 25	To receive improved drawings
Characteristic 29	To delete the asterisk and the states “circular, square, ovate”
Characteristic 30	To delete the example variety “Ite”

Runner Bean

62. The TWV reviewed document TWV/36/7 and made the following substantial changes:

(a) Material Required: in paragraph 1, the last sentence to read: “The minimum quantity of seed to be supplied by the applicant in one or several samples should be 2 kg (or at least 6,000 seeds).”

(b) Conduct of Tests: the last sentence of paragraph 3 to read “For uniformity relative uniformity should apply due to partly cross-pollination.”

(c) Grouping of Varieties: characteristics 29 and 30 to be added as additional grouping characteristics.

(d) Table of Characteristics:

Characteristic 4	To read: “ <u>Climbing beans only</u> : Plant: start of climbing (80% of plants)
Characteristic 8	To read: “Leaf: blistering”

- Characteristic 12 To besplitintotwocharacteristicsreading:  
“Flower: color of standard” with the states of expression and  
example varieties “white (Desiree, Painted Lady), red  
(Armstrong);”and  
“Flower: color of wing” with the states of expression and the  
example varieties “white (Desiree), red (Armstrong, Painted  
Lady)”
- Characteristic 14 Toread:“Pod:maximummedianwidth”
- Characteristic 15 Tobedeleted
- Characteristic 17 Toread:“Pod:suturestrings”
- Characteristic 18 Toreceiveexamplevarietiesforthestate“absentorveryslight”  
fromtheNetherlands
- Characteristics 20,22 ToreceiveexplanationfromtheNetherlands
- Characteristic 23 To read: “Pod: constrictions (at harvest maturity)” with the  
statesofexpression“absentorveryweak,weak,medium,strong,  
verystrong”
- Characteristic 25 To delete the states of expression “narrow ovate, ovate, broad  
ovate,broadovate,narrowkidneyshaped,broadkidneyshaped”
- Characteristic 28 To have the states of expression and the example varieties  
“white (Desiré e, Emerge), light tan (Melange, Painted Lady),  
pinkish purple (Armstrong, Bonela, Sun Bright), violet  
(Ivanhoe),black(Riley)”
- Characteristic 29 Toread: “ Varieties with seeds with more than one color only :  
Seed:secondarycolors”
- Characteristic 30 Tohavethestatesofexpression:“spotted,mottled”
- Characteristic 31 Toread:“ Varietieswithwhiteseedonly :Seed:veining”

### Melon

63. The TWV reviewed document TWV/36/4 but did not complete the document. The TWV agreed to discuss Test Guidelines for Melon at its next session on the basis of a new draft to be prepared by the expert from Spain.

### Perilla

64. The TWV reviewed document TWV/36/5 and made the following substantial changes:

- (a) Subject of these Test Guidelines :to deletetheword“(vegetable)”

(b) Material Required : the number of seeds to be provided by the expert from the Netherlands for insertion in paragraph 1.

(c) Table of Characteristics :

Characteristic 4	The possible change of the wording into “Plant: number of branches” to be considered further
Characteristic 5	To have the states of expression “short, medium, high”
Characteristic 7	To receive example varieties for the state “absent or very weak,” otherwise to delete this state and the state “very strong”
Characteristic 8	To be deleted
Characteristic 9	To read: “Leaf blade: length”
Characteristic 10	To read: “Leaf blade: width”
Characteristic 13	To add the example variety “Pergro” to the state “medium”
Characteristic 15	To receive example varieties from the Netherlands
Characteristic 20	To read: “Leaf blade: folding”
Characteristic 21	To seek example varieties from among ornamental types for the state “very strong”
Characteristic 22	To add the example variety “Perlime” to the state “serrate”
Characteristics 25, 26	To receive example varieties from the Republic of Korea
Characteristic 27	The example variety “Pergro” to be checked by the expert from the Netherlands
Characteristic 28	To read: “Flower: intensity of reddish purple color”
Characteristic 32	To read: “Seed: weight.”

#### Mushroom

65. The TWV reviewed document TWV/36/3 and made the following substantial changes:

(a) Cover Page : the English title to be reconsidered, as the word “mushroom” includes a very wide range of different mushroom species.

(b) Table of Characteristics :

Characteristic 5	To be split into two characteristics reading: “Stipe: shape (in longitudinal section)” with the states of expression “rectangular, trapezoid;” and “Stipe: swollen base” with the states of expression and the example varieties “absent (Horronda), present (Horbita)”
Characteristics 7,8	To be deleted
Characteristic 15	To have the states of expression “white, greyish white, pale yellowish, brown”
Characteristic 16	To be deleted
Characteristic 17	To be deleted unless example varieties can be provided
Characteristic 19	To be deleted
Characteristic 24	To be deleted.

Status of Test Guidelines

\*66. The TWV agreed that draft Test Guidelines for Broad Bean (Revision), Basil, Chinese Cabbage (Revision), Chinese Chive, Chives, Endives (Revision), Lentil, Lettuce (Revision) and Runner Bean (Revision) should be sent to the professional organizations for comments and, subject to no major comments from the professional organizations, should be submitted to the Technical Committee for final adoption.

\*67. The TWV agreed to seek the advice of the Chairman of the Technical Working Party for Ornamental Plants and Forest Trees (TWO) on whether the draft Test Guidelines for Perilla, as amended, should be considered by the TWO.

\*68. The TWV agreed to discuss or re-discuss draft Test Guidelines for Husk Tomato, Melon, Mushroom, Perilla and Rosemary during its next session.

Future Program, Date and Place of the Next Session

\*69. At the invitation of the expert from the Netherlands, the TWV proposed to hold its thirty-seventh session in Roelofarendsveen, Netherlands, from September 15 to 19, 2003, having agreed to the week starting on June 23, 2003, as an alternative date<sup>2</sup>. During the thirty-seventh session, the TWV planned to discuss or re-discuss the following items:

- (a) Short reports on developments in plant variety protection;

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<sup>2</sup> The Council, at its thirty-sixth session, held on October 24, 2002, decided that the thirty-seventh session of the TWV should be held from June 23 to 27, 2002.

- (b) Report on the last session of the Technical Committee and recommendations resulting from that session ;
- (c) Molecular techniques;
- (d) TGP documents;
- (e) Discussion on Working Paper on Test Guidelines for :
  - (i) Brussel Sprouts (Revision);
  - (ii) Cabbage (Revision);
  - (iii) Carrot (Revision);
  - (iv) Chard/Leaf Beet (Revision);
  - (v) Ginseng;
  - (vi) Husk Tomato ;
  - (vii) Melon (Revision);
  - (viii) Mushroom;
  - (ix) Parsnip;
  - (x) Perilla;
  - (xi) Rosemary;
  - (xii) Watermelon (Revision);
- (f) Date and place of the next session;
- (g) Future program.

#### Preparation of Test Guidelines for the Next Session

\*70. The TWV agreed to operate subgroups by correspondence. The proposed timeschedule and the names of leading experts and participating experts are listed in Annexes II and III. Other experts who had not participated in the session were invited to inform the leading expert if they were interested in participating in the preparation of a particular document.

#### UPOV Medals

71. Ms. Julia Borys (Poland, Chairperson of the TWV from 2000 to 2002), Mr. Richard Brand (France, Chairman of the TWV from 1988 to 1990) and Mr. Nico van Marrewijk (Netherlands, Chairman of the TWV from 1991 to 1993) each received a UPOV bronze medal in recognition of their contribution to the work of UPOV.

#### Visits

72. On Wednesday, September 11, 2002, the TWV, together with the participants of the JICA training course on PBR, visited the headquarters of the National Center for Seeds and Seedlings and its DUS testing fields in Tsukuba, the Ibaraki Experimental Station of the Takii Seeds Company and the Ibaraki Agriculture Center in Iwama City.

*73. This report has been adopted by  
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[Annex I follows]



ANNEXI

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[Annex II follows]

## ANNEXII

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

I. In the case of the following species, for which a working paper or adopted Test Guidelines exist:

- Brussel Sprouts (Revision) (TG/54/6)
- Cabbage (Revision) (TG /48/6)
- Carrot (Revision) (TG/49/6)
- Chard/Leaf Beet (Revision) (TG/106/3)
- Melon (Revision) (TWV/36/4)
- Mushroom (TWV/36/3)
- Perilla (TWV/36/5)
- Rosemary (TWV/34/14)
- Watermelon (Revision) (TG/142/3)

By November 31, 2002	Participating experts should submit comments, if any, on the existing working papers or Test Guidelines to the leading expert.
By December 31, 2002	The leading expert should prepare a Working Paper or a revised Working Paper taking into account comments received, and distribute it to participating experts of the subgroup
By March 1, 2003	The participating experts should send comments and/or further contribution on the Working Paper to all experts in the subgroup.
By May 1, 2003	The leading experts should submit the revised final draft to the Office for distribution to the members of the TWV
June 23 to 27, 2003	Discussion in the thirty -seventh session

II. In the case of the following species, for which no working paper or adopted Test Guidelines exist:

- Ginseng
- Husk Tomato
- Parsnip

By December 31, 2002	The leading expert should prepare a Working Paper and distribute it to participating experts of the subgroup
By March 1, 2003	The participating experts should send comments and/or further contribution on the Working Paper to all experts in the subgroup.
By May 1, 2003	The leading experts should submit the revised final draft to the Office for distribution to the members of the TWV
June 23 to 27, 2003	Discussion in the thirty -seventh session

[Annex III follows]



## ANNEXIII

LIST OF SUBGROUPS BY CORRESPONDENCE  
FOR THE PREPARATION OF TEST GUIDELINES

Species	Existing Working Documents or Test Guidelines	Leading Expert	Participating Experts
Brussels Sprout (Revision)	TG/54/6	Mr. Green (GB)	CZ, DE, FR, NL, PL
Cabbage (Revision)	TG/48/6	Mr. van Ette k oven (NL)	CZ, DE, FR, GB, JP, HU, PL
Carrot (Revision)	TG/49/6	Mr. van Ette k oven (NL)	BR, CZ, DE, ES, FR, GB, HU, PL
Chard/Leaf Beet (Revision)	TG/106/3	Mr. Mr. Brand (FR)	GB, NL
Ginseng	Working paper to be prepared by KR	Mr. Choi (KR)	DE
Husk Tomato	Working paper to be prepared by MX	Mr. Cruz Garza (MX)	FR, PL
Melon	TWV/36/4+ comments made by TWV/36	Mr. Calvache (ES)	BR, CZ, FR, GB, HU, JP, KR, NL, PL
Mushroom	TWV/36/3+ comments made by TWV/36	Mr. van Marrewijk (NL)	JP, KR, HU, PL; CPVO,
Parsnip	Working paper to be prepared by GB	Mr. Green (GB)	DE, HU, NL, PL
Perilla	TWV/36/5 + comments made by TWV/36 and TWO/35	Mr. van Marrewijk (NL)	KR, JP
Rosemary	TWV/34/14	Mr. Bar -Tel (IL)	DE
Watermelon (Revision)	TG/142/3	Ms. Füstos (HU)	ES, FR, JP, NL, PL

[End of Annex III and of document]