



Disclaimer: unless otherwise agreed by the Council of UPOV, only documents that have been adopted by the Council of UPOV and that have not been superseded can represent UPOV policies or guidance.

This document has been scanned from a paper copy and may have some discrepancies from the original document.

Avertissement: sauf si le Conseil de l'UPOV en décide autrement, seuls les documents adoptés par le Conseil de l'UPOV n'ayant pas été remplacés peuvent représenter les principes ou les orientations de l'UPOV.

Ce document a été numérisé à partir d'une copie papier et peut contenir des différences avec le document original.

Allgemeiner Haftungsausschluß: Sofern nicht anders vom Rat der UPOV vereinbart, geben nur Dokumente, die vom Rat der UPOV angenommen und nicht ersetzt wurden, Grundsätze oder eine Anleitung der UPOV wieder.

Dieses Dokument wurde von einer Papierkopie gescannt und könnte Abweichungen vom Originaldokument aufweisen.

Descargo de responsabilidad: salvo que el Consejo de la UPOV decida de otro modo, solo se considerarán documentos de políticas u orientaciones de la UPOV los que hayan sido aprobados por el Consejo de la UPOV y no hayan sido reemplazados.

Este documento ha sido escaneado a partir de una copia en papel y puede que existan divergencias en relación con el documento original.



TWV/31/12

ORIGINAL: English

DATE: March 9, 1998

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Thirty-First Session

Valencia, Spain, November 24 to 28, 1997

REPORT

adopted by the Technical Working Party for Vegetables

Opening of the Session

1. The thirty-first session of the Technical Working Party for Vegetables (hereinafter referred to as "the Working Party") was held in Valencia, Spain, from November 24 to 28, 1997. The list of participants is reproduced as Annex I to this report.

2. Mr. Cecilio Prieto, Technical Director of the Vice Directorate General of Seeds and Nursery Plants (*Subdirección General de Semillas y Plantas de Vivero*, SGSPV), welcomed the participants to Valencia and explained the internal structure of the SGSPV. The organigram of this unit is reproduced in Annex II to this report. Mr. Carlos Gómez Cepeda, representative of the National Government at the *Comunidad Autónoma de Valencia* also gave a welcoming speech and a short explanation of the agriculture characteristics of Valencia, Alicante and Murcia, the three provinces of the Community. The session was opened by Mr. Baruch Bar-Tel (Israel), Chairman of the Working Party.

Adoption of the Agenda

3. The Working Party adopted the agenda of its thirty-first session, as reproduced in document TWV/31/1. It agreed to include a new agenda item after item 7 on Population Standards for which document TWV/31/6 was prepared, and to delete items 9(c) Celeriac, (d) Celery, (e) *Cucurbita moshata*, (i) Globe Artichoke, (k) Kohlrabi and (m) Lentil. Due to lack of time, items 9(f) Curly Kale, (h) Fennel, (j) Industrial Chicory, (q) Swede and (s) Witlof

were not discussed. The Working Party noted, however, the comments made by the TWA on Broad Bean, Swede, Turnip/Turnip Rape and Opium Seed Poppy, which are reproduced in Annex III to this report. The Working Party discussed several of the working papers in parallel meetings of subgroups which reported on the results of their discussions to the Working Party in plenary.

Short Reports on Special Problems or Difficulties Encountered

4. Contents of the Technical Questionnaire: One expert suggested that a longer list of characteristics, or even the complete Table of Characteristics of the UPOV Test Guidelines, should be included in the Technical Questionnaire which accompanies application forms so as to make available all the breeder's information before designing a trial. Another expert supported this view and added that when large reference collections are involved, this is the best way to test varieties in a cost-effective manner. He pointed out that caution should be taken when using some information provided by the breeder, particularly in relation to the declaration of most similar varieties. He considered, however, that information on some VCU characteristics was very useful. Another expert held the opinion that new applicants who were not familiar with the subject matter of the questions might find a longer Technical Questionnaire extremely complicated. One expert from the UPOV Office noted that the systems of member States are based either on the tests of the national authority or a description provided by the applicant. A system in which high fees are paid for national testing but in which applicants are also required to provide a complete description of the variety, could be questionable for the applicants. The Working Party agreed to continue with the current system.
5. Functioning of the CPVO: The expert from the Community Plant Variety Office of the European Union (CPVO) informed the Working Party that since the opening of the Office in June 1995, 6000 applications had been received, and 2500 protection certificates granted. Of the total number of applications and grants, 700 and 300 respectively were for vegetable species. 160 varieties of vegetables are currently under DUS testing. The Working Party noted that information on grants issued is available in the UPOV Plant Variety Database (UPOV-ROM).
6. The expert from France reported a decrease in the number of applications received as a result of the functioning of the Community Plant Variety Office.
7. He also reported that as a result of the testing of varieties for which supranational rights will be granted, large reference collections need to be used. This view was shared by the expert from Spain who underlined the need to exchange information between countries to avoid contradictory decisions. Some experts suggested the addition of short descriptions to the protected and/or listed varieties, containing only the grouping characteristics and maybe the most similar varieties, to facilitate the management of large reference collections for the examination of new varieties. The Working Party agreed that this question would need further consideration.
8. Disease Resistance Characteristics: Some experts reported to the Working Party on the need to harmonize the methods for the testing of disease resistance characteristics in UPOV member States. The Chairman suggested a harmonization of the methods on a species-by-

species basis when preparing or revising Test Guidelines. The expert from France introduced a document issued by GEVES describing methods for the testing of 62 disease resistances in various species. One expert from the UPOV Office made reference to document TWO/31/11 Rev. which reproduces the results of the survey on the use of resistance characteristics for DUS testing. The Working Party asked the Office of UPOV to prepare and distribute a circular to the national authorities requesting information on tested resistances tested for national applications and the tests that national authorities would be prepared to run on behalf of third countries.

9. The expert from Spain noted that care should be taken when using the resistance characteristics declared by the applicant as grouping characteristics. He informed the Working Party that in Spain when distinctness between two varieties was solely based on such characteristics, differences in two resistance characteristics was considered the minimum distance to consider the varieties distinct.

10. One expert from the Netherlands informed the Working Party that the Netherlands General Inspection Service for Vegetable and Flower Seeds (NAKG), had started a project to gather information on new diseases or new strains of known diseases, in particular of *Bremia*, in cooperation with breeders, the Phytosanitary Institute and the Inspection Service for Vegetables. The expert from France reported that 12 strains of *Bremia* are being tested in France, four of which have been found to be new. The expert from Poland informed the meeting that in her country there is a pathogen bank that could provide useful information.

11. The other expert from the Netherlands reported that complaints have been received from users on the lack of uniformity for resistance characteristics in protected varieties.

12. Old example varieties: The expert from the Czech Republic reported to the Working Party on difficulties in finding obsolete example varieties mentioned in UPOV Test Guidelines. One expert from the UPOV Office reminded the meeting that an example variety is only an example for a state of expression of that characteristic in a particular country, namely the country of the expert who drafted the Test Guidelines.

13. Applications for old varieties: The expert from the Czech Republic asked the Working Party how old varieties that have been sold on a small scale by small growers and which do not fulfill the uniformity requirement are treated in UPOV countries. The expert from France explained to the Working Party that these varieties are registered in France in a secondary list called the "B List" in an attempt by the national authorities to exert some control on the commercialization of these varieties. The expert from Germany pointed out that the uniformity requirement is assessed using as a minimum the uniformity standards of similar varieties of similar age in the reference collection. The expert from Finland reported to the Working Party that local landraces that are only distributed in local markets in the country are accepted for registration and the uniformity requirement is not assessed.

14. The expert from Hungary reported to the Working Party that in Hungary protection is obtained in practical terms by certification (only the breeder is allowed to produce certified seed). Applications for plant variety protection had been filed in Hungary for old European varieties which were not novel.

15. DUS Testing in GM Varieties: An expert from the Netherlands reported to the Working Party that for the DUS testing of genetically modified varieties, novel characteristics must be observed. The methodology used, e.g. spraying with a specific herbicide are raising some public concern in the Netherlands.
16. Quality Standards of DUS Testing: He also reported to the Working Party that there is some pressure from the users of the system to have protected varieties with assured protection quality in a similar way as the international quality assurance systems for food products. In this sense, he posed the question whether a DUS testing that follows closely the UPOV system can be automatically considered assured in terms of quality of the protection granted.
17. Several arguments were raised inside the Working Party that could be summarized as follows: UPOV Test Guidelines are only recommendations that may be implemented by the experts at national level. Following UPOV Test Guidelines gives a certain minimum quality standard, particularly in uniformity. Final decisions on distinctness will depend on the experts who perform the DUS tests. Large reference collections and harmonized methods of DUS testing, particularly of disease resistance characteristics, are the keystones to obtain similar results in different countries.
18. EU projects: One expert from the Netherlands reported that in the comparative trial for tomatoes organized by the European Union and performed by the NAKG, it was shown that identical varieties were listed in different member States under different names. To avoid this situation in the future, a system for the exchange of technical questionnaires through electronic mail between interested EU member States has been proposed in parallel with an EU project to exchange information on-line between member States and the Commission, using Internet facilities, the aim being to create a Community database of the descriptions of the varieties included in the Common Catalogue.
19. DUS testing of the parent lines: The expert from the Czech Republic asked the Working Party whether in applications for hybrids of open-pollinated species, the parent lines should also be tested for DUS. Some experts reported that parent lines are not tested in vegetable species. One expert from the UPOV Office questioned how a different population standard than that for open-pollinated varieties could be applied if the genetic nature of the hybrid is not verified. Some experts argued that when there is no strong inbred depression, parent lines of open-pollinated species are generally more stable, given rise to hybrids which easily fulfill uniformity standards. In cases of less uniform parent lines, relative uniformity was applied to the hybrids. In the description of the variety the fact that the variety is claimed by its breeder to be a hybrid is recorded.
20. One of the experts from the Netherlands reported to the Working Party, that there is a considerable increase in applications for parent lines with a decrease in the number of applications for hybrids.
21. Granting procedures: Following a question raised by the expert from Poland the Working Party noted the various granting procedures in member States. One expert from the Netherlands explained that in his country there is a Plant Breeder's Rights Board that grants protection on the recommendation of the examiners, independently from the Ministry of Agriculture. In this Board, in principle only negative recommendations and appeals are discussed. One expert from Germany explained that in Germany, the examiner makes the

description and takes the final decision. Appeals are heard in a Council where the examiner has no vote. The expert from France explained that in France, a panel observes and makes proposals to the Plant Breeder's Rights Board which takes the final decision. This Board is formed by ten people belonging to both the private and the public sector. The expert from Spain explained that in his country a Plant Breeder's Rights Commission formed by researchers, breeders and officers with no vote takes final decisions on the granting of protection. The expert from the CPVO explained that four Committees based on the crop (agriculture, vegetables, fruit, ornamentals) take final decisions after recommendations from the relevant crop expert within the CPVO called the "case holder."

22. Application of recommendations on variety denominations: The Working Party noted that harmonization is needed in the application at national level of the UPOV recommendations on variety denominations. It was informed that at EU level, the UPOV recommendations form the basis for guidelines on denominations for varieties listed in the Common Catalogue.

23. Assessment of Distinctness in species with low source of genetic variation: The Working Party discussed on how distinctness could be assessed in varieties of species for which no sexual reproduction is possible, where apart from mutations there is no source of genetic variation, e.g. garlic. It decided to present the question to the Technical Committee for consideration.

24. Virus infected material: The expert from Spain expressed his concern about applications for varieties which might be virus free material of old varieties. The Working Party noted that this question is particularly relevant to garlic, as reference collections contain virus infected material of varieties.

25. Submission of samples: The Working Party agreed that in principle there should be only one submission of samples by the applicant for DUS testing.

26. Changes in the Office of UPOV: One expert from the UPOV Office explained that following the retirement of Dr. Arpad Bogsch, who was the Secretary-General of UPOV for the last 24 years, Dr. Kamil Idris, a national of Sudan, had been elected Director General of WIPO, and as a result of the administrative agreement between WIPO and UPOV, had been appointed Secretary-General of UPOV, effective from November 1, 1997.

27. DNA profiling techniques as tools for DUS Testing: The Working Party was given a presentation by Ms. María J. Asins, Laboratory of Genetics, Department of Plant Protection and Biotechnology at the *Instituto Valenciano de Investigaciones Agrarias*, IVIA in Spain, on the application of DNA profiling techniques, and the RAPD technique in particular, to the identification of varieties, using the Spanish reference collection of Cucumber (*Cucumis sativa*) as an example. The Working Party noted with interest that promising results were obtained in the identification of varieties. It also noted, however, some anomalies in the grouping of varieties. The Working Party agreed that discussion of the results should be continued at the next meeting of the Working Group on Biochemical and Molecular Techniques and DNA Profiling in Particular, which will take place in Washington D.C. from September 28 to 30, 1998.

Report on the Last Session of the Technical Committee and Recommendations Resulting from that Session

28. One representative of UPOV gave a brief report on the main items discussed during the previous session of the Technical Committee and referred participants, who needed further details, to the full report reproduced in document TC/33/11.

29. List of species in which practical technical knowledge has been acquired: The Working Party noted an updated version of the document of the list of species in which practical technical knowledge has been acquired, document TC/33/5. It invited the experts to submit information to the Office of UPOV to keep the document regularly updated.

30. UPOV Central Computerized Database: The Working Party noted the latest stage of the UPOV Plant Variety Database on CD-ROM (UPOV-ROM) as set forth in Circular U 2594 dated October 21, 1997, which concerned the fifth disk of 1997. The Office of UPOV aimed to issue an updated disk every second month. The Working Party noted that the disk distributed in October 1997 contained part of the OECD List included in the database and the whole OECD List in a separate pdf (portable document file) file. Discussions were underway to include the European Union Catalogue in the UPOV-ROM. The UPOV-ROM to be distributed in December 1997 would include data on applications granted by the CPVO in a separate pdf (portable document file) file. It was expected that several improvements would be made on the UPOV-ROM in 1998, especially to enable its use in a local network. It noted that, as decided by the Council, it will be made available to the private sector probably as from January 1, 1998, at an annual subscription of 750 Swiss francs.

31. Several experts had had a chance to study the UPOV-ROM and expressed their satisfaction. All the experts were invited to contact their colleagues at national level and encourage them to make any comments for further improvement. An expert from the UPOV Office gave a short demonstration of the contents of the UPOV-ROM.

32. The expert from France expressed his concern in the sense that for verification of denominations, production of the UPOV-ROM was not fast enough, as national Offices require up-to-date information much faster. The Working Party noted that a possible approach to this problem would be to have access to national Offices information on-line.

33. Developments in the World Wide Web: The Working Party noted that the Office of UPOV had plans well advanced for the establishment of a Web Site; the site would initially provide topical information about UPOV; its history, objectives, membership, structures, principal officers and, some of the formal documents, e.g. text of Conventions. In a further step other documents would be placed on the server for access in electronic form.

Definition of Off-types

34. The Working Party noted that the Technical Committee requested a definition of off-types. The Working Party decided to follow the first part of the definition of off-types given by the TWA, which reads as follows:

“Any plant is considered an off-type if it is clearly distinguishable from the variety, taking into consideration the particular species.”

35. It also adopted the position of the TWO in considering that an admixture is considered an off-type. Admixtures would thus be taken into consideration for the judgment of uniformity.

General Presentation of Characteristics in Test Guidelines

36. The Working Party noted the new document TWF/28/7 prepared by experts from South Africa and a collection of certain rules provisionally agreed upon by the Editorial Committee as reproduced in document TWF/28/9.

37. One expert from the UPOV Office gave a short summary explanation on the presentation of the expert from South Africa in the last session of the TWO on the basic principles of the document and explained the different cases appearing on the basis of a summary as reproduced in Annex IV to this report and examples from document TWF/28/7. The Working Party was invited to study the documents TWF/28/7 and TWF/28/9 and apply the rules in drafts prepared for the next session. If they had questions or had proposals for further improvements these should be sent to the expert from South Africa.

Statistical Methods

38. Use of COYU for the assessment of uniformity of open-pollinated species: The Working Party took note of the decision taken by the Technical Committee to introduce Combined-Over-Years Uniformity criterion in a revised General Introduction to Test Guidelines, document TG/1/2. As this criterion is only exceptionally used for DUS testing of vegetable species, it decided to recommend the Technical Committee that paragraph 31 and 32 of the present General Introduction to Test Guidelines should not be deleted, but kept as an alternative to the use of COYU.

39. List of statistical documents prepared by the TWC: The Working Party noted that the TWC had prepared document TWC/15/2 containing a list of documents produced by it, and document TWC/15/3 containing a top index to those documents. The Working Party appreciated the updating of those lists and especially the topic index which made it easier to find a particular document on a given subject.

Population Standards for Hybrids of Open-pollinated Species

40. Mr. van Marrewijk (Netherlands) introduced the document TWV/31/6, prepared by him, on the population standards to be applied for the assessment of uniformity of hybrid varieties of open-pollinated species. Population standards to be applied in different types of hybrids was discussed at length. The Working Party concluded that for the assessment of uniformity of hybrids of self-pollinated or mainly self-pollinated species, paragraph 33 of the General Introduction to Test Guidelines, document TG/1/2, relative to single-cross hybrids, should be applied. It noted, however, that in the case of single-cross hybrids of open-pollinated varieties

in vegetable species, whenever there are high degrees of inbred depression, non-uniform parent lines could be found, causing a lower degree of uniformity in their hybrids. In such cases, only relative uniformity standards should be applied. The Working Party decided to recommend that the Technical Committee includes a new paragraph in the revised General Introduction to Test Guidelines with the following wording:

“For single-cross hybrids of open-pollinated species with strong inbred depression or with non-uniform vegetatively maintained parent lines, only relative uniformity standards should be applied.”

GM Varieties

41. The Working Party noted that the Technical Committee reconfirmed its decision to include in the Technical Questionnaire in future, a broad question whether the variety would “require authorization for release under legislation concerning especially the protection of the environment, human and animal health in the country in which the application is made” and whether such authorization had been obtained. The question was not intended to be limited to GM varieties but to elicit information where appropriate on other restrictions on release. The CAJ during its session held on October 21, 1996, decided to amend the text as follows:

“4.3(i) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

“Has such authorization been obtained?

Yes [] No []

If the answer to that question is “yes,” please attach a copy of such authorization.”

The Working Party agreed that for the vegetable species, all Test Guidelines should contain such request in their Technical Questionnaire.

42. The Working Party decided to distribute a questionnaire requesting information on the competent authorities, national proceedings to obtain legal authorizations and on references to the current legislation on the release of GM varieties in member States. Mr. Brand (France) agreed to send a draft proposal for the contents of the circular to the Office by the end of February.

Final Discussions on Draft Test Guidelines

Draft Test Guidelines for Welsh Onion, Japanese Bunching Onion

43. The Working Party noted the draft Test Guidelines for Welsh Onion, Japanese Bunching Onion as reproduced in document TG/161/1(proj.). It finally made the following main changes to document TG/161/1(proj.):

(i) Material Required: In paragraph 1, to delete the words “in one or several samples.”

(ii) Methods and Observations: To delete paragraph 3 and to add a new paragraph with the following wording: “For the assessment of uniformity of open-pollinated varieties and hybrid varieties, relative uniformity standards should be applied.”

(iii) Technical Questionnaire: In section 4, subsection 4.1, to have the following variety types:

- (i) Open-pollinated variety
- (ii) Single hybrid
- (iii) Double hybrid
- (iv) Three-way hybrid
- (v) Clone
- (vi) Other type

To have subsection 4.2 deleted and to have a new subsection 4.2 with the following wording:

“4.2 Genetic origin and breeding method

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to that question is “yes,” please attach a copy of such authorization.”

Draft Test Guidelines for Onion and Shallot

44. The Working Party noted the draft Test Guidelines for Onion and Shallot (Revision) as reproduced in document TG/46/4(proj.). It finally made the following main changes to document TG/64/4(proj.):

(i) Subject of the Guidelines: To have the spelling of the Latin name corrected to read: *Allium cepa* L., *Allium ascalonicum* and to have it also corrected throughout the Test Guidelines.

(ii) Material Required: In paragraph 1, to delete the words “in one or several samples.”

(iii) Methods and Observations: To delete paragraph 3 and to add a new paragraph with the following wording:

“For the assessment of uniformity of open-pollinated varieties and hybrid varieties, relative uniformity standards should be applied.”

(iv) Table of Characteristics

Characteristics

4 To delete the word “intensity.”

18 To have states of expression replaced by those of characteristic 11 of adopted Test Guidelines for Onion, TG/46/3.

25 To delete example variety “Greenella (O)” for Note 3.

34.2 To have 80% instead of 75%.

35 To delete states of expression “very early” and “very late” and to delete example variety “Sweet Sandwich (O)” for Note 7.

(v) Explanations on the Table of Characteristics

Ad.16 To exchange drawings of Notes 2 and 3.

Ad.18 To have drawings replaced by those of characteristic 11 of the adopted Test Guidelines for Onion, TG/46/3.

Ad.20 To have a new drawing for Note 4.

(vi) Technical Questionnaire: In subsection 4.1 to have the variety type “population” replaced by “open-pollinated variety.”

To delete subsection 4.2 and to have a new subsection 4.2 with the following wording:

“4.2 Genetic origin and breeding method

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to that question is "yes," please attach a copy of such authorization."

Draft Test Guidelines for Rhubarb

45. The Working Party noted the draft Test Guidelines for Rhubarb (Revision) as reproduced in document TG/62/4(proj.). It finally made the following main changes to document TG/62/4(proj.):

(i) Material Required: To delete the words "in one or several samples."

(ii) Methods and Observations: In paragraph 2, to have the maximum number of off-types allowed changed from 0 to 1.

(iii) Grouping of Varieties: To have characteristic 15 "Petiole: ground color of skin" added as a grouping characteristic.

(iv) Table of Characteristics:

Characteristics

5 To have the sequence of states of expression changed as follows: "pointed 1, obtuse 2, round 3".

15 To add the example variety "Royal Red" for Note 2.

(v) Technical Questionnaire: To delete subsection 4.2 and to have a new subsection 4.2 with the following wording:

"4.2 Genetic origin and breeding method

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to that question is "yes," please attach a copy of such authorization."

In section 5, to have characteristic 15 of the Table of Characteristics added and to have standard sections 6 and 7 added.

Draft Test Guidelines for Cornsalad

46. The Working Party noted the draft Test Guidelines for Cornsalad (Revision) as reproduced in document TG/75/4(proj.). It finally made the following main changes to document TG/75/4(proj.):

- (i) Material Required: To delete the words “in one or several samples.”
- (ii) Table of Characteristics:

Characteristics

5 To be deleted.

11 To have the example variety “Coquille de Louviers” moved from Note 2 to Note 1; to have the example variety “Verte à coeur plein 2” moved from Note 3 to Note 2 and to add the example variety “Gala” also for Note 2; to add example variety “Verte d’Etamps” for Note 3.

13 To delete the word “intensity of” and to add an asterisk; to add the example varieties “Verte Mareïcher” for Note 3, “Verte de Rouen” for Note 5 and “Verte à coeur plein” for Note 7.

17 To delete the asterisk.

(iii) Technical Questionnaire: To delete subsection 4.2 and to have a new subsection 4.2 with the following wording:

“4.2 Genetic origin and breeding method

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to that question is “yes,” please attach a copy of such authorization.”

In section 5, to add characteristic 13 of the Table of Characteristics.

Draft Test Guidelines for Garlic

47. The Working Party noted the draft Test Guidelines for Garlic as reproduced in document TG/162/1(proj.). It finally made the following main changes to document TG/162/1(proj.):

(i) Material Required: In paragraph 1, to have words “in one or several samples” replaced by the words “in each year”. At the end of paragraph 1, to add the sentence “It must be free from virus, in particular from “Leek Yellow Stripe Virus” or “Onion Yellow Dwarf Virus” and in good sanitary conditions.”

(ii) Conduct of Tests: To delete paragraph 4.

(iii) Grouping of Varieties: To have characteristic 9 replaced by characteristic 8 “Scape: presence”.

(iv) Table of Characteristics:

Characteristics

1 To have the word “Foliage” replaced by the word “Plant.” To have a new characteristic added, reading “Plant: density of leaves” with the states of expression “loose, medium, dense” and the Notes 3, 5, 7 and to add an asterisk.

2 To have the words “intensity of” deleted.

6 To add the word “slightly” before State of expression “concave” and to add a new state of expression reading “strongly concave” with the Note 3.

To have after this characteristic a new characteristic inserted reading “Pseudostem: width of the base” with the states of expression “narrow, medium, broad” and Notes 3, 5 and 7, with the example varieties “Ramses”, “Printanor” and “Germidour,” for each Note respectively and to receive an asterisk.

10 To have the word “bulblets” replaced by the word “bulbils”.

11 To have the words “growth habit” replaced by the word “curvature” and to have the states of expression replaced by the states “absent, present”.

Discussion on Working Papers on Test Guidelines

Working Paper on Black Radish (Revision)

48. The Working Party noted document TWV/31/10 and made the following main changes:

(i) Material Required: To have the words “in one or several samples” deleted.

(ii) Methods and Observations: Paragraph 3 to read: “All observations on the cotyledon should be made when the first two leaves are fully developed.”

(iii) Table of Characteristics:Characteristics

- 8 To receive example varieties “Rex”, and “Noir long Maraîcher” for Note 5, and “Ovale blanc de Munich” for Note 7.
- 9 To receive example variety “Rex” for Note 2 and “Montanhong” for Note 3.
- 10 To read: “Leaf blade: green color.”
- 12 To receive example varieties “De cinq semaines rose 3” for Note 5, “Noir long Maraîcher” for note 7 and “Mikura Cross” for Note 9.
- 14 To be deleted.
- 16 To be deleted.
- 17 To add states of expression “very short” and “very long” with Notes 1 and 9 respectively and to add example varieties “Runder schwarzer” for Note 1, “Jaune d’or oval” for Note 3, “Noir gros long d’hiver” for Note 5, “Rex” for Note 7, and “Minowase Summer Cross No. 3” for Note 9.
- 19 To receive example varieties “Jumbo Scarlet” for Note 1, “Jaune d’or ovale” for Note 5, “Dsukushi Spring” and “Noir long Maraîcher” for Note 6, “Ovale blanc de Munich” for Note 7 and “De cinq semaines rose 3” for Note 9.
- 22 To read: “Radish: main color of skin”, to add an additional state of expression “yellow” with Note 2, to renumber consequently further states of expression, and to add example varieties “Jaune d’or ovale” and “Green Meat” for Note 2, to move example variety “Fridolin braun” to Note 3, to add example varieties “Rosé de Paques 3” and “Rose longue” for Note 4, “Belrosa” for Note 5, and to move example varieties “Ostergruß rosa 2”, “Gourney” and “Runder Schwarzer” to Notes 6, 8 and 9 respectively.
- 25 To read: “Radish: concentric ridging of surface” and to look for further example varieties to be added.
- To have a new characteristic added with number 24 to read: “Color of the flesh” with the states of expression “translucent white, opaque white, green and red” with Notes 1, 2, 3 and 4 respectively, and with example varieties “Minowase Summer Cross No 3” for Note 1, “Noir gros long d’hiver” for Note 2, “Green Meat” for Note 3 and “Montanhong” for Note 4.
- 27 To read: “Radish: tendency to become hollow” with the states of expression to read: “absent or very weak, weak, medium, strong, very strong”, and to receive the example varieties “South Pole” and “Tamara Cross” for Note 1, “Salvator” for Note 3 and “Unos Tribe” for Note 5.

Working Paper on Dill

49. The Working Party noted documents TWV/30/2 and TWV/31/11. It finally made the following main changes to document TWV/31/11:

(i) Material Required: To have the words “in one or several samples” deleted.

(ii) Conduct of Tests: The third sentence of paragraph 3 to read: “Each test should include 60 single plants divided between two or more replicates.” There should thus be no drilled plots used for observations.

(iii) Methods and observations: Paragraphs 1 and 2 to read as follows: “1. All observations should be made on 60 plants or parts of 60 plants. 2. All observations on the leaf, the attitude of the plant and the density of the foliage should be made before the appearance of the main umbel.”

(iv) Table of Characteristics:

Characteristics

1, 10, 18 To be deleted.

4 To read: “plant: density” with the states “loose (3), medium (5), dense (7).”

5 To add drawings from Poland and to check whether they referred to the length or the height; “Ambrozja” to be replaced by “Sari”; the length/height to be measured at full flowering.

6 To add drawings and to have the word “lateral” deleted.

7, 12 To be split into two characteristics, one on the “blue hue” with the states “absent (1), present (9)” and other on the “intensity” with the states “light (3), medium (5), dark (7).”

11 To read: “leaf: length” with the states “short (3), medium (5), long (7)” and the example varieties to be verified; thereafter a new characteristic to be inserted reading: “Leaf: width” with the states “narrow (3), medium (5), broad (7).”

11, 12, 13 To be placed after characteristic 18.

14 To be deleted if no example varieties are indicated by Poland.

15, 16, 17 To be checked by Poland, characteristic 15 to read provisionally “Leaf: fineness of segments (sections)” with the states “fine (3), medium (5), coarse (7)” and characteristic 16: Leaf: density of feathering” with the states “loose (3), medium (5), dense (7).”

(iv) General: The expert from Germany to check for literature, the expert from Poland to prepare a drawing of the whole leaf, marking the different parts to be observed.

Working Paper on Leek (Revision)

50. The Working Party noted documents TWV/31/2 and TWV/31/2 Add. and made the following main changes to document TWV/31/2:

- (i) Cover Page: To have the spelling of the Latin name corrected.
- (ii) Material Required: In paragraph 1, to delete the words “in one or several samples.”
- (iii) Methods and Observations: Paragraph 3 to read “All observations should be made at harvest maturity on fully developed leaves.”
- (iv) Grouping of Varieties: In paragraph 2, to leave only subparagraphs (i), (ii), and (iii).
- (v) Table of Characteristics:

Characteristics

- 2 State of expression 7 to read “long.”
- 3 State of expression 1 to read “loose.”
- 4 To have the word “almost” in state of expression 5 and the example variety for Note 3 deleted.
- 5 To be deleted.
- 9 To have the example variety “Azur” replaced for Note 3, to have example variety “D’Hiver de Saint Victor” moved to Note 9 and to add example variety “Nepal” for Note 7.
- 10 To read “Leaf blade: waxiness.”
- 11 In Note 3, to have number 3 replaced by number 9.
- 12 To be deleted.
- 13 To have example variety “Vitan” replaced by “Maxim”.
- 14 To have example variety “De Verrières” deleted for Note 3.
- 16 To read “Schaf: bulb formation”, to have example variety “Genita” deleted for Note 1 and more example varieties to be provided.
- 18 To be deleted.
- 20 To have the asterisk and the words “hybrids and” deleted.

(vi) Technical Questionnaire: In Section 5, to have characteristics 6 and 9 included and to have characteristic 20 deleted of the Table of Characteristics.

Working Paper on Turnip/Turnip Rape

51. The Working Party noted document TWV/31/8 and decided that the Test Guidelines should be split into Test Guidelines for Turnip and Test Guidelines for Turnip Rape and that this Working Party should only revise the part of the document that referred to Turnip. It made the following main changes to the document:

- (i) Cover Page: The words “Turnip Rape” and “ and var. *silvestris*” to be deleted.
- (ii) Subject of these Guidelines: To read “These Test Guidelines apply to all varieties of *Brassica rapa* L. (var. *rapa*) with swollen roots.”
- (iii) Material Required: In paragraph 1, the quantity of seed to read “100 g.”
- (iv) Conduct of Tests: In paragraph 3, the third sentence to read “As a minimum, each test should include a total of 60 plants which should be divided between two or more replicates.”
- (v) Methods and Observations: The first paragraph to end after the words “40 plants.” Paragraph 2 to be replaced by the sentence “For the assessment of uniformity of open-pollinated and hybrid varieties relative uniformity standards should be applied.” And a new paragraph to read “Any observations on the siliqua and stalk, if needed, should be done following the Test Guidelines for Turnip Rape” to be added.
- (vi) Grouping of Varieties: To delete paragraph 2 and in paragraph 3, first sentence to read “It is recommended that the competent authorities use the following characteristics for grouping varieties”. To delete subparagraph (v), to add characteristic 26 as a new grouping characteristic and to delete the paragraphs with headings “group 21.” and “2.2.”
- (v) Table of Characteristics:

Characteristics

1, 3, 4, 5, 14b, 15a, 18, 22a, 38, 40, 41, 45, 46, 47, 48, 49, 50 and 52 to be deleted.

6 To have states of expression “medium” and “nearly horizontal” deleted, to have example variety “Goldvital” deleted for Note 3 and to add Notes 3 and 5 for states of expression “semi-erect” and “horizontal.”

8 State of expressions 1 and 3 to read “very light” and “light” respectively.

9 To read “Leaf: lobing” with the states of expression “absent” “present.”

19 To have an additional state of expression to read “medium” with Note 5.

30 To read “Root: shape” with the states of expression to read “transverse elliptique”, “round”, “narrow elliptique” and “obconical.”

32 To have the words in brackets deleted.

33 The word “relative” in the wording of the characteristic to be deleted, the states of expression to read “above middle”, “at middle” and “below middle”, and the example varieties to be rearranged accordingly.

35 To add a plus sign.

36 The Notes to be renumbered to 1, 2, 3, 4 and 5.

37 The states of expression to read “low”, “medium” and “high.”

39 The words in brackets to be deleted.

51 To be considered for deletion at the next meeting.

(vi) Explanations on the Table of Characteristics: To be rearranged accordingly only for Turnip species.

(vii) Technical Questionnaire: In section 5, to add characteristic 26, and to be rearranged accordingly only for Turnip species.

Working Paper on Okra

52. In a subgroup of the Working Party, document TWV/31/5 was noted and the following main changes were made:

(i) Methods and Observations:

Paragraph

2. To apply to a population standard of 1% with 95% acceptance probability resulting in 2 off-types out of 40 plants.

5. To read: “Unless otherwise indicated, all observations on the fruit should be made on the young fruit at the time of commercial harvest.”

4. To read: “All observations on the stem and the leaf should be made between the 10th and 15th node of the main stem.”

(ii) Table of Characteristics:

Characteristics

6, 13, 16, 17, 18, 22, 27 To be deleted.

1 To read: "Plant: degree of branching" with the status "weak (3), medium (5), strong (7)."

2 To have the states "short, medium, tall."

5, 12, 21 To read "Stem/Leaf blade/fruit: intensity of color" with the states "light, medium, dark."

7 To read: "Stem: number of nodes (up to and including first flowering node)" with the states "few, medium, many."

8 to 12 To apply to the leaf blade.

14 and 15 To apply to the petiole.

9 To read "leaf blade: degree of lobing."

23 To read: "fruit: diameter of young fruit.

31 To have "mature" underlined.

24 To add a better drawing and the notes "1, 2, 3."

25 To have the states "about or very weak (1), weak (Emerando, 2), strong (Yaeyama, 3)."

26 To have the states "narrow acute (1), acute (2), broad acute (3)."

28 to add an asterisk (*) and to have state 2 read "more than 5."

(iii) General

The expert from Japan to prepare a new drawing for characteristic 24.

Working Paper on Opium/Seed Poppy

53. In a subgroup of the Working Party, documents TWV/30/7 and TWV/31/3 were noted and the following main changes made in document TWV/31/3 after having heard the remarks made by the TWA on document TWV/31/3 as reproduced in Annex III to this report:

(i) Table of CharacteristicsCharacteristics

- 1, 31, 37, 38 To be deleted.
- 5, 21, 22, 25, 34 To add an asterisk.
- 2 To have the explanations deleted.
- 5 To add a plus sign.
- 10 To read: "Stem leaf: hue of green color (upper side)" with the states "absent (Magick, 1), yellowish (2), bluish (Kozmosz, 3)."
- 11 To read: "Stem leaf: intensity of green color."
- 12 To read: "Stem leaf: waxiness."
- 13 To add drawings from characteristic 13 of document TWV/30/7.
- 16 To add "(white varieties excluded)."
- 20 To have the states "light, medium, dark."
- 23 To have the asterisk and the example variety for state 3 deleted.
- 24 To read: "capsule: waxiness."
- 25 To have the last three states read: "elliptic" (4), broad elliptic (5), pear shaped (6)."
- 29 To have "intensity of" deleted.
- 30 To add a plus sign.
- 32 To have the last two states of expression to read: "conical (4), pagoda-like (5)."
- 34 To have the drawings amended.
- 35 To have the states pointed (1), pointed to rounded (2), rounded (3), rounded to rectangular (4), rectangular (5)."

(ii) General

Several example varieties were changed or added and the expert from Hungary will submit further example varieties.

Working Paper on Radish (Revision)

54. The Working Party noted document TWV/31/9 and, because of the similarity with Black Radish, decided to use also document TWV/31/10 for discussion. It made the following main changes to document TWV/31/9:

- (i) Cover Page: To have the spelling of the Latin name corrected.
- (ii) Material Required: To have the same wording as for document TWV/31/10 with 100 g as quantity of seed.
- (iii) Conduct of Tests: To read the same as for document TWV/31/10, with the exception of the third sentence of paragraph 3, to be changed to read: "Each test should include a total of 200 plants which should be divided between two or more replicates."
- (iv) Methods and Observations: To read "All observations determined by measurement or counting should be made on 40 plants or parts of 40 plants." and to have paragraphs 2, 3, 4 and 5 with the same wording as for TWV/31/10.
- (v) Grouping of Varieties: To have characteristics 1, 21, 24, and 27 of the Table of Characteristics as Grouping Characteristics.
- (vi) Table of Characteristics:

Characteristics

- 1 To add example varieties "Amored" and "Aristo" for Note 2 and "Boy" and "Simox" for Note 4.
- 3 To have example variety "Saxa Treib" replaced by "Saxa 2" for Note 3, and to have example varieties "Certina" and "National" replaced by "Korund" for Note 7.
- 4 To have example variety "Fix" for Note 7 deleted.
- 5 To have example variety "Istar" replaced by "Salto" and "Clipo" for Note 3, to have example varieties "Roky and Prompto" replaced by "Balkar" and "Balored" for Note 5 and to have example variety "Treff" replaced by "Belimage" and "Ronde White" for Note 5.
- 6 To have example variety "Saxa Treib" replaced by "Saxa 2" for Note 3, to have example variety "Nouvel Orléans" replaced by "Amored" and "Novo" and example variety "Certina" replaced by "Boy."
- 7 To have Notes replaced by 1, 3, 5.
- 9 To read "Leaf blade: hue of green", with the states of expression "absent, yellowish, grayish with the Notes 1, 2 and 3 and the example varieties "Saxa 2" for Note 1, "Atlas", "Scarlet Globe" and "Serrida" for Note 2 and "Balored", "Flair" and "Polka" for Note 3.

- 10 To add example varieties “Gaudio” for Note 3, “Furabella” and “Helro” for Note 5 and “Foxired” for Note 7.
- 11 To be deleted.
- 12 To have the words in brackets deleted, to have example variety “Saxa Treib” replaced by “Saxa 2” for Note 1, to add example variety “Nelson” for Note 3 and to have example variety “Kutara” replaced by “Cracou” and “Salto” for Note 5.
- 13 To look for new example varieties to be added.
- 14 To be deleted.
- 15 To add example varieties “Apolo” and “Callisto” for Note 3 and “Cracou” for Note 5.
- 16 To have example varieties “Rapido” and “Prompto” replaced by “Disco” and “Flamboyant 2” for Note 3 and to have example variety “Furax” replaced by “Delongpont” and “Rond écarlate” for Note 7.
- 17 To have example variety “Hiverno” replaced by “Flamboyant 2” for Note 9.
- 18 To add example variety “Mirabeau” for Note 3, and to have example variety “Istar” replaced by “Forro” for Note 5 and “Hiverno” by “Pernot” for Note 7.
- 19 To have the words “de Sézanne” in the example variety for Note 7 deleted.
- 20 To add example varieties “Clipo” for Note 3 and “Apolo”, “Cerise” and “Flamboyant 2” for Note 5.
- 21 To add example varieties “Fakir” and “Rond rose à très grand bout blanc” for Note 1, “Cerise” and “Tinto” for Note 2, “Pernot”, “Delongpont” and “de Pontoise” for Note 5, “Clipo”, “Fluo” and “Salto” for Note 6, “Albion” and “Apolo” for Note 7 and “Blanche transparente” for Note 9.
- 22 To add example varieties “Ascari” and “Amored” for Note 2 and to add example variety “Aristo” for Note 3.
- 23 To have example variety “Furax” replaced by “Blanche transparente” for Note 1, to add example varieties “Bamba” and “Callisto” for Note 3 and add example variety “À forcer rond écarlate” for Note 4.
- 24 To have example variety “Saxerre” replaced by “Cerise” and “Balored” for Note 1 and to have example variety “Fakir” replaced by “Flamboyant 2” for Note 2.
- 27 To have example varieties “Hiverno” replaced by “Démi-long écarlate” for Note 1, to add example varieties “Delikat” and “Flamino” for Note 3, to have example varieties “Rundes halbrod-halbweiss” replaced by “Fakir” and “Pépito” for Note 5, to add example varieties “Séraphin” for Note 7 and “Rond rose à très grand bout blanc” for Note 9.

- 28 To have example variety “Cerina” replaced by “Mercurius” for Note 7.
- 29 To have example variety “Nouvel Orléans” replaced by “Albion” for Note 1.
- 30 To be deleted.
- 31 To have example varieties “National” and “Prinz Albin” replaced by “Altox” for Note 1, to add example variety “Apolo” for Note 3, to have example variety “Robino” replaced by “Aviso” for Note 5, to have example variety “Rubens” and “Roky” replaced by “Boy” and “Cherry Belle” for note 7 and to add example variety “Carnita” for Note 9.
- 32 To have example variety “Prélude” replaced by Apolo” for Note 3, to have example variety “Dijon” replaced by “Cerise” for Note 5 and to have the number 2 added to the example variety “Flamboyant” for Note 7.

(vii) General

It was decided to continue with the study of the resistance to Fusarium before including it as a resistance characteristic.

Status of the Test Guidelines

55. The Working Party agreed to send revised draft Test Guidelines for Welsh Onion/Japanese Bunching Onion, Onion and Shallot, Rhubarb and Cornsalad to the experts not present in the meeting for comments. If no comments or only editorial comments were received, these draft Test Guidelines should be sent to the Technical Committee for adoption.
56. The Working Party agreed that the draft Test Guidelines for Black Radish, Dill, Leek, Okra, Opium/Seed Poppy and Radish should be sent to the professional organizations for comments. The expert from France agreed to send the missing information for the draft Test Guidelines for Garlic, in which case, they should be sent again to the professional organizations for comments.
57. The Working Party noted comments on draft Test Guidelines for Swede, Broad Bean and Opium/Seed Poppy made by the Technical Working Party for Agricultural Crops as reproduced in Annex III to this report. The Working Party agreed to ask Mr. Green (United Kingdom) to prepare a new document on Broad Bean in agreement with the expert from Germany, to be discussed at its next session, and also to be sent to the TWA for comments.
58. One expert from the Netherlands agreed to prepare a new document on draft Test Guidelines for Fennel to be discussed at the next session.
59. The Working Party agreed that a new document on Test Guidelines only for Turnip with the amendments proposed should be prepared, which should also be sent to the TWA for comments and that Working Papers on Test Guidelines for the other species mentioned in the agenda should be discussed at its next session.

Future Program, Date and Place of the Next Session

60. At the invitation of the expert from Poland, the Working Party agreed to hold its thirty-second session in Slupia Wielka, Poland, from June 29 to July 3, 1998. The Working Party agreed to discuss the following items at the session:

- (i) Short reports on special problems or difficulties encountered;
- (ii) Resistance tests offered by member States;
- (iii) Report on the last session of the Technical Committee and recommendations resulting from that session;
- (iv) General presentation of characteristics in Test Guidelines;
- (v) GM varieties;
- (vi) Final Discussions of the draft Test Guidelines for:
 - (a) Black Radish (Revision), (TG/63/4(proj.))
 - (b) Radish (Revision), (TG/64/4(proj.))
 - (c) Okra, (TG/167/1(proj.))
 - (d) Opium/Seed Poppy (TG/166/1(proj.))
 - (e) Leek (Revision), (TG/85/4(proj.))
 - (f) Dill (TG/165/1(proj.))
 - (g) Garlic (TG/162/4(proj.))
- (vii) Discussions of Working Papers on Test Guidelines for:
 - (a) Broad Bean (Revision) (TG/8/4; working paper to be prepared by Mr. Green (UK))
 - (b) Celeriac and Celery (Revision), (TG/74/3, TG/82/3; working paper to be prepared by Mr. Pfülb (DE) in cooperation with Mr. Green (UK))
 - (c) Curly Kale (Revision) (TG/90/3; working paper to be prepared by Mr. Green (UK))
 - (d) Fennel (TWV/30/6; working paper to be prepared by Mr. van Ettehoven (NL))
 - (e) Globe Artichoke (TWV/28/18; working paper to be prepared by Mr. Brand (FR))
 - (f) Kohlrabi (Revision), (TG/65/3; working paper to be prepared by Mr. Pfülb (DE))
 - (g) Lentil (working paper to be prepared by Mr. Brand (FR))
 - (h) Swede (Revision), (TG/89/3, TWV/31/4)
 - (i) Turnip (Revision), (TG/37/7, TWV/31/8; new working paper to be prepared by Mr. Green (UK))
 - (j) Industrial Chicory (TWV/30/19)
 - (k) Witlof (TWV/30/18)
 - (l) Horse Radish (working paper to be prepared by Ms. Kristóf (HU))
 - (m) Rosemary (working paper to be prepared by Mr. Bar-Tel (IL))

(n) Basil (working paper to be prepared by Mr. Brand (FR))

(viii) Species for which national Test Guidelines are being developed.

61. In order to advance discussions on Test Guidelines, the Working Party agreed to follow the approval of the Technical Working Party for Ornamental Plants and Forest Trees (TWO) and Technical Working Party for Fruits (TWF), and to select for each of the species in the above planned list one leading expert and to ask the other countries whether they have a special interest in that species and would be willing to cooperate with the leading expert by correspondence in the preparation of a more advanced document. The document would then only be discussed in the full session of the Working Party if it was in a rather final stage with few changes required before its presentation to the professional organizations for comments. The leading expert would also check his draft against the documents TWF/28/7 and 9. The objective would be to send the final document to the Office of UPOV at least two months before the next session. The Office of UPOV was asked to prepare a Circular inviting experts from States which had not participated in the session to express their interest and send comments and remarks to the leading expert. Experts preparing new drafts are invited to use, if possible, the electronic layout prepared by the Office of the Union.

Visits

62. On Monday, 24, the Working Party visited the field trials for the DUS testing of varieties of Tomato, Pepper and Cucumber. For Lettuce, Chinese Cabbage, Cauliflower and Broccoli four replicates had been made, two of them in the glasshouse or nethouse. The Working Party was shown the processing of the plant products for the comparison of relevant varieties.

63. On Wednesday 26, the Working Party visited the disease resistance trials for some vegetable species, namely the trial to test tomato mosaic virus, at the *Universidad Politécnica* in Valencia. The same day the Working Party visited secondary trials for the assessment of the agronomic value of several vegetable species, namely Chinese Cabbage, Cauliflower, Globe Artichoke, Egg Plant, Pepino (*Solanum muricatum*), and some fruit species like Strawberry, at a station, which is financially supported by farmers' cooperatives and private banking, belonging to the regional administration of the Community of Valencia.

64. On Thursday 27, the Working Party visited the open field and glasshouse tomatoes plantations belonging to BONNISA, a privately-owned company. The visit continued to the processing and packaging plant of the company where tomatoes were being classified by color and weight, to meet particular market demands. During the same day, the Working Party was shown rice fields and palm-tree nurseries.

[Annex I follows]

ANNEX I

LIST OF PARTICIPANTS

I. MEMBER STATESCANADA

Elizabeth PRENTICE-HUDSON (Mrs.), Plant Breeders' Rights Office, Canadian Food Inspection Agency, 59 Camelot Court, Nepean, Ontario K1A 0Y9 (tel: +613-225 2342, ext. 4297, fax: +613-228 6629, e-mail: eprentice@em.agr.ca)

CZECH REPUBLIC

Radmila SAFARIKOVÁ (Mrs.), ÚKZÚZ, Plant Variety Testing Branch, Hroznova 2, Brno 65606 (tel.: +420-5-4332 1304, fax: 420-5-4321 2440)

FINLAND

Leena PIETILÄ (Mrs.), Plant Production Inspection Centre, Seed Testing Dep., P.O. Box 111, Loimaa, FIN-32201, (tel.: +358-2-76056216, fax: +760 56222, e-mail: leena.pietila@mmm.fi)

FRANCE

Muriel BABIN (Mrs.), INRA, GEVES, Unité Experimentale de Cavaillon, B.P. 1, Les Vignères, F-84300 (tel.: +33-4 9078 6660, fax: +33-4 9078 0161)

Richard BRAND, INRA, GEVES, Unité Experimentale de Cavaillon, B.P. 1, Les Vignères, F-84300 (tel.: +33-4 9078 6660, fax: +33-4 9078 0161, e-mail: richard.brand@geves.fr)

Valérie CADOT (Mrs.), INRA, GEVES, Domaine de la Boisselière, Brion, Beaufort en Vallée F-49250 (tel.: +33-2 4157 2322, fax: +33-2 4157 4619, e-mail: valerie.cadot@geves.fr)

Magalie DELALANDE (Mrs.), INRA, GEVES, Unité Experimentale de Cavaillon, B.P. 1, Les Vignères, F-84300 (tel.: +33-4 9078 6660, fax: +33-4 9078 0161, e-mail: magalie.delalande@geves.fr)

GERMANY

Reinhold BAUR, Bundessortenamt, Am Sendelbach 15, D-96050 Bamberg (tel.: +49-0951 916020, fax: +49-0951 9160230)

Elmar PFÜLB, Bundessortenamt, Prüfstelle Rethmar, Hauptstraße 1, D-31319 Sehnde
(tel.: +49-5138-60860, fax: +49-5138-608670)

HUNGARY

Elisabeth KRISTÓF (Mrs.), National Institute for Agricultural Quality Control,
Keleti Károly, u. 24, 1024 Budapest (tel.: +36-1-2125-620, fax: +36-1-2125-800/2122-673)

ISRAEL

Baruch BAR-TEL, PBR Testing Unit, Agricultural Research Organization, P.O. Box 6,
Bet Dagan 50250 (tel. + fax: +972 3 9683669, mobile phone: +972 52 343813)

JAPAN

Mitsuo YUASA, Seeds and Seedlings Division, Ministry of Agriculture, Forestry and
Fisheries, 1-2-1, Kasumigaseki, Chiyoda-Ku, Tokyo 100 (tel.: +81-3-3591-0524,
fax: +81-3-3502-6572)

NETHERLANDS

Nico van MARREWIJK, CPRO-DLO, P.O. Box 16, 6700 AA Wageningen
(tel.: +31-317-476880, fax: +31-317-418094, e-mail: n.p.a.vanmarrewyk@cpro.dlo.nl)

Cees van ETTEKOVEN, NAKG, P.O. Box 27, 2370 AA Roelofarendsveen
(tel.: +31-71-3319102, fax: +31-71-3316256, e-mail: info@nakgrav.nl)

POLAND

Julia BORYS (Mrs.), COBORU, Research Centre for Cultivar Testing, 63-022 Slupia Wielka
(tel.: +48-061-2852341, fax: +48-061-285 3558)

Jolanta URBANIAK (Mrs.), COBORU, Experimental Station for Cultivar Testing,
63-022 Slupia Wielka (tel.: +48-061-2852307, fax: +48-061-285 3558)

SPAIN

David CALVACHE, Centro de Ensayos de Valencia, Subdirección General de Semillas y
Plantas de Vivero, Ministerio de Agricultura, c/ Joaquín Ballester, 39, E-46009 Valencia
(tel.: +34 96-388-1086, fax: +34 96-388-1046)

Manuel PEDRON, Centro de Ensayos de Valencia, Subdirección General de Semillas y
Plantas de Vivero, Ministerio de Agricultura, Joaquín Ballester 39, 46009 Valencia
(tel.: +96-388-1086, fax: +96-388-1046)

Francisco EDO, Centro de Ensayos de Valencia, Subdirección General de Semillas y Plantas de Vivero, Ministerio de Agricultura, Joaquín Ballester 39, 46009 Valencia (tel.: +34 96-388-1086, fax: +34 96-388-1046)

Nuria DUPERIER (Mrs.), Subdirección General de Semillas y Plantas de Vivero, Carretera de la Coruña Km. 7,5, 28040 Madrid (tel.: +34-1 91 347 4165)

Mariano DEL FRESNO, Registro de Variedades, Subdirección General de Semillas y Plantas de Vivero, Ministerio de Agricultura, c/ José Abascal 4, 6ª planta, 28003 Madrid (tel.: +34-1 347 6927, fax: +341 594 2768)

Cecilio PRIETO, Subdirección General de Semillas y Plantas de Vivero, Ministerio de Agricultura, c/. José Abascal 4, 6ª planta, 28003 Madrid (tel.: +34-1 347 6921, fax: +34-1 594 2768)

Luis SALAICES SANCHEZ, Subdirección General de Semillas y Plantas de Vivero, Ministerio de Agricultura, c/. José Abascal 4, 6ª planta, 28003 Madrid (tel.: +34-1 347 6921, fax: +34-1 594 2768)

II. NON-MEMBER STATES

Tae-Jin YANG, National Alpine Agricultural Experiment Station, RDA, Hoengeri Poam, Pyoungchang, Kangwondo, 232-P50, Republic of Korea (e-mail: tjyang@chollian.dacom.co.kr)

Byung-Cheon YU, National Seed Production and Distribution Office, RDA, Republic of Korea

III. OBSERVER ORGANIZATION

COMMUNITY PLANT VARIETY OFFICE

Sergio SEMON, Community Plant Variety Office of the European Union, B.P. 2141, Angers, Cedex 02, France, F-49021 (tel.: 33-2-41368456, fax: 33-2-41 36 84 60)

IV. EXPERTS

Manmohan ATTAVAR, ASSINSEL, Indo-American Hybrid Seeds, 17th Cross, 2nd A Main, Banashankari 2nd Stage, Bangalore-560 070 (tel.: +91-80 665 0111, fax: +91-80 6650479, e-mail: dv.attavar@iahs.sprintsmx.ems.vsnl.net.in)

V. OFFICER

Baruch BAR-TEL, Chairman

VI. OFFICE OF UPOV

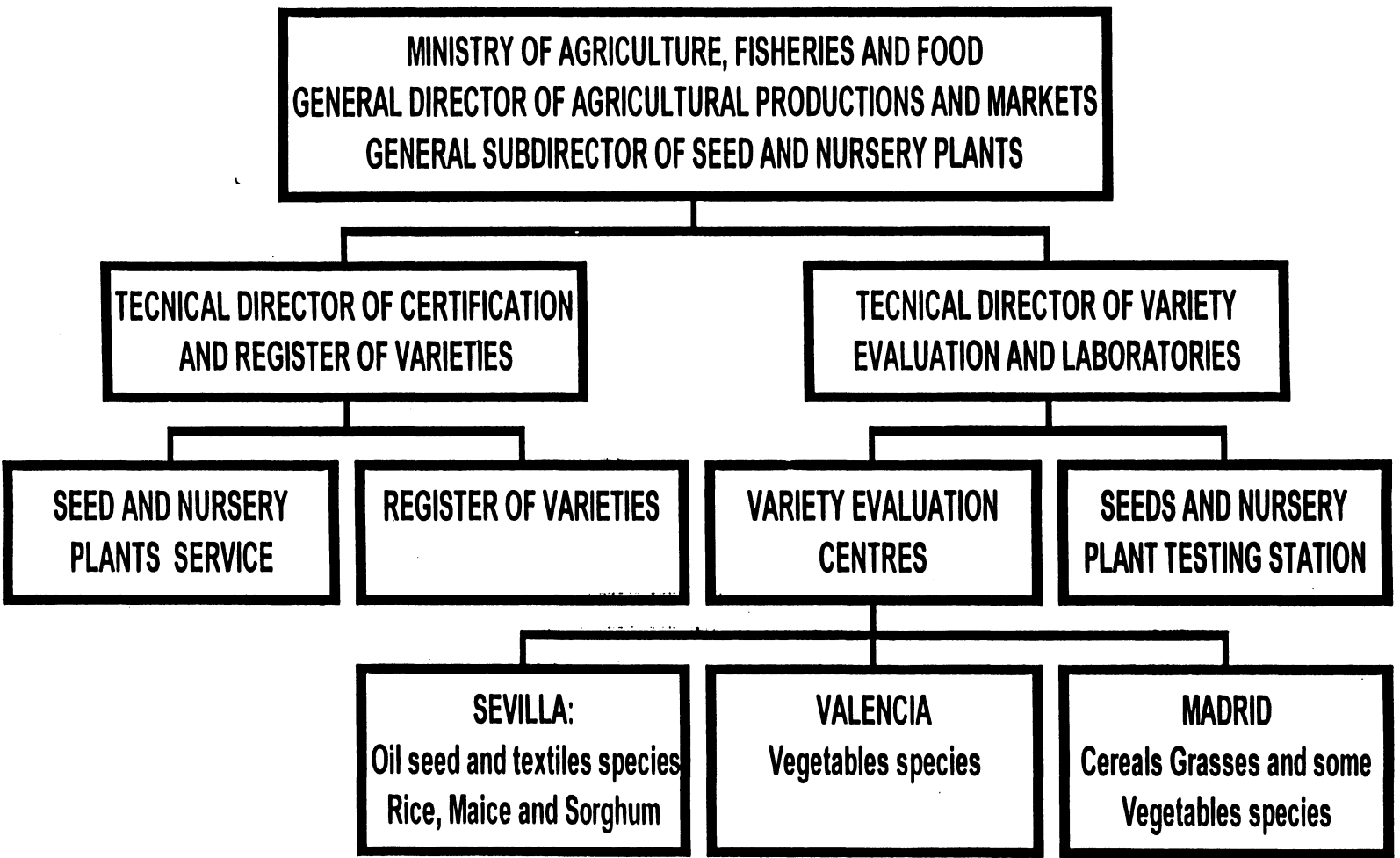
Max-Heinrich THIELE-WITTIG, Senior Counsellor, 34, chemin des Colombettes,
1211 Geneva 20, Switzerland (tel.: +41-22-338 9152, fax: +41-22-733 0336,
e-mail: thiele.upov @wipo.int, www:http://www.upov.int)

Nuria URQUÍA, Senior Program Officer, 34, chemin des Colombettes, 1211 Geneva 20,
Switzerland (tel.: +41-22-338 9565, fax: +41-22-733 0336, e-mail: urquia.upov @wipo.int)

[Annex II follows]

ANNEX II

ORGANIGRAM OF THE VICE DIRECTORATE GENERAL
OF SEEDS AND NURSERY PLANTS



**T. D. CERTICATION
AND REGISTER
OF VARIETIES**

**SEED AND NURSERY
PLANTS SERVICE**

**-LEGISLATION - COORDINATION SEED CERTIFICATION
-IMPROVE AND ENSURE THE PRODUCTION OF SEED
AND NURSERY PLANTS.**

REGISTER OF VARIETIES

**-LEGISLATION
-APPLICATIONS AND ADMINISTRATIVE WORKS
-VARIETY DENOMINTIONS**

**VARIETY EVALUATION
CENTERS**

**-D.U.S. TRIALS
-V.C.U. TRIALS (IN SOME CASES)
-SEED QUALITY CONTROL (IN SOME CASES)
-COORDINATION OF COMPLEMENTARY WORKS**

**T.D. VARIETY
EVALUATION
AND LABORATORIES**

**SEED AND NURSERY
PLANTS TESTING
STATION**

**-TEST TO DO WITH CERTIFICATION
-QUALITY ANALYSIS (OF THE FINAL PRODUCTS)
-DISEASES RESISTANCE TESTS**

**COOL CHAMBER FOR
CONSERVATION OF
REFERENCE COLLECTION**

[Annex III follows]

ANNEX III

COMMENTS OF THE TWA ON THE WORKING PAPER ON THE
REVISION OF TEST GUIDELINES FOR BROAD BEAN,
FIELD BEAN, SWEDE AND OPIUM/SEED POPPY

Test Guidelines for Broad Bean, Field Bean

1. The Working Party noted document TWV/30/15 and paragraph 43 of document TWV/30/21.
2. It first started amending the Technical Notes to apply to either self-fertilized varieties (mainly broad beans) or to cross-fertilized varieties (mainly field beans). It also noted that many example varieties were mixed which were either grown in Spain or the United Kingdom. It was doubted whether they all had been grown at the same place to find out which state of expression they refer to at the given place of selection for the UPOV document. It also noted that there was no complete absence of a melamine spot (characteristic 17) on the wing.
3. The TWA came finally to the conclusion that it was not possible to prepare one single Test Guidelines document covering both species. Thus the TWV should prepare its own document for Broad Bean while the TWA would prepare one for Field Bean. The difficulty still to be solved would be what to do with the hybrids between species and how to draw the dividing line. It could be established on the differences in seed weight and use. The type of reproduction might help, but in both groups both types would occur and thus both Test Guidelines should foresee the application for both types.

Test Guidelines for Swede

4. The TWA noted document TWV/31/4 and made the following main remarks or proposals for changes:
 - a) Why are there no generative characteristics included?
 - b) Why is characteristic 15 split?
 - c) In the Technical Notes, rules on uniformity are missing (e.g. a reference to the use of COYU or paragraphs 31 and 30 of TG/1/2).
 - d) Characteristic 19 is missing (diameter of neck)
 - e) The paragraph on "GMO" varieties should be included in the Technical Questionnaire.

Test Guidelines for Opium/Seed Poppy

5. The TWA noted document TWV/31/3 and made the following main remarks or proposals for changes:

- a) There are too many characteristics.
- b) Too many characteristics have no example varieties to fix the state of expression. At least the quantitative characteristics should have example varieties (e.g. 42, 43)
- c) Too few characteristics have an asterisk (*)
- d) For characteristics 2 and 13, drawings are missing. Does characteristic 13 refer to the shape of the surface?
- e) Characteristic 5 should have an asterisk instead of characteristic 6.

[Annex IV follows]

SUMMARY OF STATES OF EXPRESSION

1. QUALITATIVE

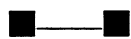
1.1 TRUE QUALITATIVE



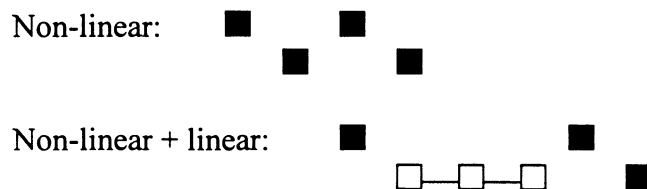
1.2. NON-TRUE QUALITATIVE



1.2.1 *Only two states*



1.2.2 *More than two states*



2. QUALITATIVE EXPRESSED QUANTITATIVE

2.1. CONDENSED QUALITATIVE EXPRESSED TRUE QUANTITATIVE

2.1.1 *Only lower extreme fixed*

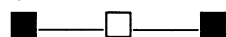


2.1.2 *Medium state fixed*

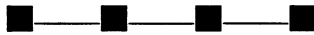


2.2. QUALITATIVE EXPRESSED NON-TRUE QUANTITATIVE

2.2.1 *CONDENSED — Both extremes at limit*



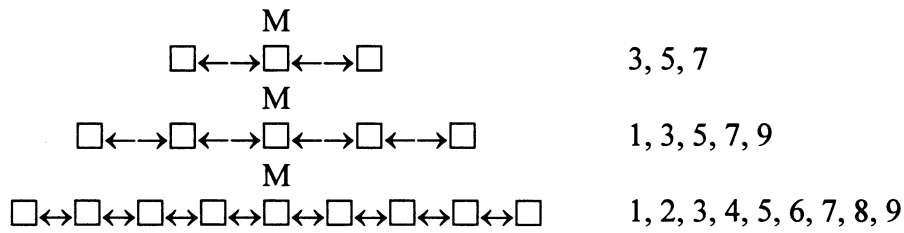
2.2.2 UNCONDENSED



3. QUANTITATIVE

3.1. TRUE QUANTITATIVE

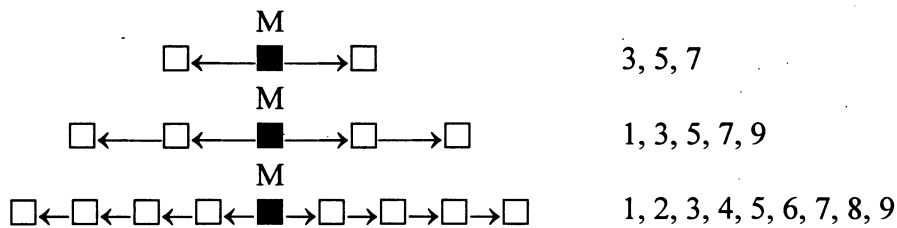
3.1.1 *No states fixed*



3.1.2 *Only lower extremity fixed*

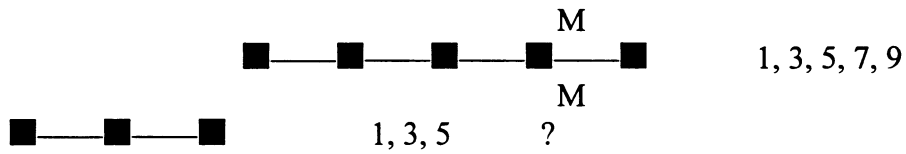


3.1.3 *Only medium fixed*



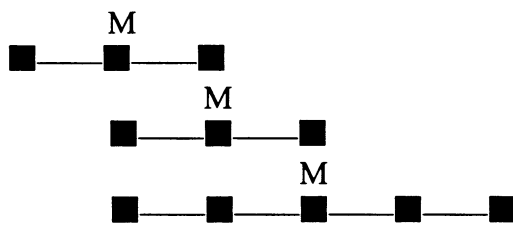
3.2. NON-TRUE QUANTITATIVE

3.2.1 *Obvious limit definable for both extreme ends*

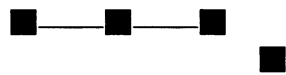


Often qualitatively expressed

3.2.2 *Without obvious limit to each extreme end*



Symmetry easily distorted often qualitatively expressed, may become qualitative merely by addition of states not in the linear range



[End of Annex IV and of document]