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UPOV

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# INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

## TECHNICAL WORKING PARTY FOR VEGETABLES

## Thirtieth Session
## Brno, Czech Republic, July 8 to 12, 1996

REPORT

*adopted by the Technical Working Party for Vegetables*

Opening of the Session

1. The thirtieth session of the Technical Working Party for Vegetables (hereinafter referred to as "the Working Party") was held in Brno, Czech Republic, from July 8 to 12, 1996. The list of participants is reproduced as Annex I to this report.

2. Mr. Jirí Kalásek, Central Director of the State Checking and Testing Institute in Agriculture, welcomed the participants to Brno. The session was opened by Dr. Elisabeth Kristóf (Hungary), Chairman of the Working Party.

Adoption of the Agenda

3. The Working Party adopted the agenda of its thirtieth session, as reproduced in document TWV/30/1, after having agreed to delete items 9(d) *Cucurbita moshata*, (f) Global artichoke, (h) Lentil, (m) Leek and (q) Okra. Due to lack of time, items 9(c) Witlof, (k) Celeriac, (o) Fennel, (p) Industrial Chicory and (r) Dill, were also not discussed. The Working Party discussed several of the working papers in parallel meetings of subgroups which reported on the results of their discussions to the session of the Working Party.

Short Reports on Special Problems or Difficulties Encountered

4. The chairman reported on a letter sent by a Dutch breeding company, which stated that in document TG/61/6, Test Guidelines for Cucumber, the example variety "Pepinex" given as a susceptible standard for characteristic 44 relating to Cladosporium, was a mistake, as this variety has been registered in the Netherlands as a resistant variety. It was agreed to substitute this example variety with "Hamada" and "Chinese Slangen," as suggested by the expert from the Netherlands. It was agreed that a corrigendum would be prepared and distributed by the Office of UPOV.

5. The expert from the United Kingdom informed the Working Party about a mistake in Part III of the Annex to document TG/7/9, Test Guidelines for Peas. It was also agreed that the Office of UPOV would prepare and distribute a corrigendum including the proposed amendments.

6. The expert from France reported that GEVES and several breeding companies, working with vegetatively propagated species, have published together a list of those resistances which are used as characteristics for DUS testing, as well as the protocols to asses them. At present only the French version of this publication was available, but an English version was currently in preparation. He also proposed to consider, in a more systematic way, IPGRI descriptors when drafting new Test Guidelines, or revising old ones, which was accepted by the Working Party.

7. Some experts argued that it should be acceptable that certain resistance characteristics could be considered as asterisk characteristics. On behalf of those countries where no facilities were available for the testing, some other national Offices could carry out the testing. Other experts expressed their concern that the testing of these characteristics become compulsory and consequently did not accept the proposal.

8. The consideration of characteristics which are important for description and/or to establish distinction, but which are strongly influenced by the environment, as asterisk characteristics, raised considerable discussion among the Working Party. One expert was of the opinion that these characteristics should be used for distinction but not for the description of the variety, as the expression of that characteristic would differ from country to country and the description would therefore have no meaning outside the country where it was carried out. Other experts were of the opinion that characteristics important for distinction were also good for description purposes and by indicating the country where the description was made the problem could be overcome.

9. The Working Party discussed how to assess uniformity of environment dependent important characteristics in self-fertilized species. In the case of crops where characteristics such as shape or size had an environmental component in their expression, they should be considered in the same way as the characteristics for open pollinated varieties, where only relative uniformity was assessed. The Working Party agreed to present the question to the Technical Committee for discussion.

10. One expert explained that there was another kind of characteristics that could sometimes only be observed in certain plants of a variety, but when expressed they could be considered

good characteristics for distinction. An example of this type of characteristics would be anthocyanin pigmentation in onions in southern European countries. The representative of UPOV clarified that only uniformly expressed characteristics should appear in the Test Guidelines.

11. The representative of the Community Plant Variety Office of the European Union (CPVO) informed the Working Party that in September 1994, Community Regulation 2100/94 on Community Plant Variety Rights had entered into force, establishing a common legislation for the protection of plant varieties for the whole territory of the European Union. The regulation was to a very large extent based on the elements of the UPOV Convention of March 1991. In May 1995 two implementing regulations to the Community regime, on procedures and fees, had come into force. The implementation of the Community regime was carried out by the Community Plant Variety Office (CPVO), which had taken up duties in June 1995 at its provisional location in Brussels. Since then, 3850 applications had been received, of which 1665 had been filed under the transitional provision. Of the total number, 750 required DUS testing. The remaining were already examined or were currently under examination. 550 of them belonged to vegetable species, representing some 14% of the total, while 33% belonged to agricultural species, and some 50% to ornamental species. The applicants from the Netherlands were holding one third of the total applications. The Working Party was informed that an applicant from a non EU country would need to appoint a representative with a domicile in a EU country.

12. He also informed the Working Party that EU Test Guidelines for Tomato, Chrysanthemum, Impatiens, Pelargonium, Wheat and Maize had already been published by the CPVO. On questioning by an expert on the process of elaboration of further Test Guidelines, he replied that as long as no CPVO Test Guidelines were adopted, for the species for which UPOV Test Guidelines exisited, the entire UPOV Test Guidelines would be considered CPVO Test Guidelines, giving all the characteristics the status of compulsory use. When environmental conditions would render the observation of a characteristic impossible in a particular country, that characteristic might then be deleted in that country.

13. The chairman of the Working Party suggested that a member of the Working Party, for example the Chairman, attend the CPVO Administrative Council meetings. The representative of the CPVO agreed to transmit this proposal to the Administrative Council.

14. The expert from France expressed his concern about the different forms to be filled for variety descriptions used by the OECD permanent seed Committee, the CPVO or UPOV. The expert from Israel noted that although the uses of these forms might be different, the goals were common: the description and identification of varieties. The expert from the European Commission noted that this problem could be solved if a common understanding were reached between experts of the same country attending the meetings of the different organizations.

Report on the last Session of the Technical Committee and Recommendations Resulting From That Session

15. The 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/32/7.

16. List of Species in Which Practical Technical Knowledge has Been Acquired: The Working Party noted an updated version of document TC/32/5 on the list of species in which practical technical knowledge has been acquired.

17. Definitions of Categories of Characteristics and the Conditions of Their Use for the Description of Varieties: The Working Party noted the discussions in the Technical Committee and its need for a clearer understanding and definition of the different categories of characteristics used. It noted the draft presented during the Technical Committee session and reproduced in paragraph 64 of document TC/32/7 Prov., which comprised the following categories:

(a) Asterisk Characteristics

Characteristics recommended by UPOV for use on all varieties in every growing period during which examinations are made and always included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.

(b) Non-Asterisk Characteristics

Characteristics considered useful by UPOV for DUS testing and description, but not all UPOV member States recommended their routine use.

(c) Routine Characteristics

- All UPOV asterisk characteristics;
- Some UPOV non-asterisk characteristics if selected by a given State for routine testing;
- Some additional non-UPOV characteristics if selected by a given State for routine testing.

(d) Additional/Supplementary Characteristics

Any characteristic used in addition to the characteristics recommended by UPOV or in addition to those used routinely at national level.

(e) Complementary Characteristics

Characteristics which cannot be used at all to establish distinctness, but provide useful information of the variety. Example: DNA marker.

(f) Last Resort Characteristics

Special case of additional characteristics used only under the following conditions:

(i) with agreement of the applicant;
(ii) if all other characteristics fail to establish distinctness;
(iii) a test procedure has been agreed between competent authority and the applicant;
(iv) if used, can establish distinctness in combination with other characteristics but in the extreme case, alone.

One expert questioned the need of such definitions. The representative from UPOV explained that the main need was to define and distinguish between additional/supplementary characteristics and complementary characteristics and to have some clarification on the meaning and use of last resort characteristics.

UPOV Central Computerized Database

18. The Working Party noted the latest stage in the preparation of the UPOV Plant Variety Database on CD-ROM (UPOV-ROM), as set forth in Circular U 2347, dated December 15, 1995. The Office of UPOV had invited all of its member States to submit data for the envisaged disc by the end of January 1996. The disc will contain data from 23 member States. The data from four States, however, will be data which were already sent in 1995. Only seven States were not able so far to provide data for the first production. It is expected that the first production disc will be circulated at the end of August, 1996.

19. The expert from ASSINSEL asked about the possibility of direct access to the UPOV-ROM for breeders. The Working Party noted that the availability of the UPOV-ROM for non-member States and the private sector had not yet been decided, but would be discussed at the next Council meeting in October 1996. A request for data for the second production disc had been issued and some data had already been received. The Working Party invited all participants to contact their colleagues at the national level in order that they look at and evaluate the information on the first production disc.

Definition of Off-types

20. The Working Party noted that the Technical Committee requested a definition of off-types. The Working Party considered that for the testing of uniformity of seed reproduced varieties, in addition to any plant which was sufficiently different from the rest of the plants of the variety in the trial in any characteristic used as a routine for the DUS testing, any plant clearly and obviously different in a characteristic not used as a routine for DUS testing could also be considered as an off-type. Thus, in seed propagated varieties, even in a characteristic

never observed before, any plant different to the rest of the plants of the variety could be considered as an off-type and might lead to the rejection of the variety as long as the difference in that characteristic was obvious and clear.

Variety Denominations

21. One expert from the Netherlands noted that, while they did not allow trademarks as denominations, in many cases trademarks were added to denominations, and that they had observed that the same varieties were registered under different trademarks in different countries to prevent parallel imports and creating confusion among growers. The expert from France reported to the Working Party that applications had been received for old varieties under new denominations, in order to prolong protection for those varieties.

Request for Photographs in the Technical Questionnaire

22. The Working Party noted that the Technical Committee had stated as a rule the request for a photograph of the candidate variety in the Technical Questionnaire of fruit and ornamental species. The expert from France proposed to add a photograph of the variety to the official description as complementary information which would not be part of the official description to exchange between offices.

General Presentation of Characteristics in Test Guidelines

23. The Working Party discussed how to achieve a better harmonization of the wording and giving of Notes to states of expression in the Test Guidelines and agreed to try to apply the following rules and the following states of expression and Notes and to only deviate from the recommended ones if really necessary:

(1) The characteristics should be complete in their wording, in order to be self-explanatory, even without the states of expression. The qualifying word should always be included in the wording of the characteristic.

| Therefore, instead of: | It should read: |
|---|---|
| Apex: short acuminate, etc. | Shape of apex: short acuminate, etc. |
| Area: small, medium, large | Size of area: small, medium, large |
| Calyx: non enveloping (1), enveloping (2) | Calyx enveloping: absent (1), present (9). |

(2) Color

In general, scales such as: light green, green, dark green, grey green, blue green, etc., should be avoided and replaced by two characteristics:

- color, and
- intensity of color.

In view of the high numbers of "colors" used, it was advised not to use one scale including all colors. It will be studied, however, whether to create the following:

– one color scale containing the primary colors used, i.e.: white, yellow, green, brown, purple, blue, black, etc.,

followed by

– a characteristic indicating a secondary color component: absent, whitish, yellowish, greenish, etc.,

followed by

– a characteristic on the intensity of the color.

For the more specific colors the TWO approach with the RHS Colour Chart number should be followed.

(3) Cover/Covering

Slight differences in the wording of the expressions should be avoided. It is proposed to use only: not covered (1), partly covered (2), fully covered (3).

(4) Degree

Differences in wording of the expressions weak/medium/strong, sparse/medium/dense, slight/medium/strong, should be avoided. It is proposed to use only: weak (3), medium (5), strong (7).

(5) Density

Density may be two dimensional (sparse (3), medium (5), dense (7)) and three dimensional (loose (3), medium (5), dense (7)). It was proposed to use both of the possibilities, depending on the special case.

(6) Depression

For depression, two different ways, weak/medium/strong and shallow/medium/deep are used. It is proposed to use only: Depth of depression: shallow (3), medium (5), deep (7).

(7) Diameter

Two scales are used: small/medium/large and narrow/medium/broad. It is proposed to only use: Diameter: small (3), medium (5), large (7).

(8) Distribution/Division

In view of the peculiarity of the species, different scales exist. No standardized proposal has been made.

(9) Earliness

It is proposed to replace Earliness with Time of (harvest) maturity: early (3), medium (5), late (7).

(10) Expression of Silvering

As this characteristic is closely related to resistance characteristics, the opposite order of the states of expression is very confusing. On the occasion of a revision it should be changed into: Silvering: absent (1), present (9).

(11) Height

Three different scales are used: short/medium/tall, short/medium/high and low/medium/high.

It is proposed to use only: short (3), medium (5), tall (7).

(12) Intensity

Two scales are used: weak/medium/strong for various characteristics and light/medium/dark for colors.

It is proposed to use for colors only: light (3), medium (5), dark (7).

(13) Number

A number of scales is in use (9): standardization seems difficult as the species have different demands.

No standardized proposal has been made.

(14) Shape

Thirty-three different shapes of characteristics are included in the thirteen vegetable Test Guidelines. Shape is used for the entire object, sections of the object or specific parts of the object. Almost exclusively the expression numbers 1, 2, 3, 4, 5, etc., are used, and rarely 3, 5, 7. The general order elliptic/round/transverse elliptic is not always applied.

It is proposed to use drawings for shape characteristics for the correct understanding, in particular by the breeders/applicants.

(15) Speed

Two scales are used: slow/medium/fast and slow/medium/rapid.

It is proposed to use: slow (3), medium (5), fast (7).

(16) Weight

Three different scales are used: low/medium/high, small/medium/high and small/medium/large.

It is proposed to use: low (3), medium (5), high (7).

(17) Width

Two scales are used: narrow/medium/broad and thin/medium/thick.

It is proposed to use either:

– width: narrow (3), medium (5), broad (7), or (if applicable)

– thickness: thin (3), medium (5), thick (7).

(18) Cupping/Profile/Shape

Different wording to indicate similar situations exist with convex (3)/plane (5)/ concave (7), concave (1)/plane (2)/convex (3), concave (3)/flat (5)/convex (7), concave (1)/flat (2)/convex (3).

It is proposed to accept different wording according to different situations as follows:

Shape in cross section:

– concave (1), flat (2), convex (3), or
– concave (1), flat (3), convex (5), or
– concave (3), flat (5), convex (7).

Statistical methods

24. The Working Party received a detailed explanation from one expert from Germany on his experience with the application of a biometrical approach to visually-assessed characteristics in celeriac, following the same approach already carried out for French beans, published in document TWC/13/14. As a result, (i) it appeared that in several characteristics only part of the whole scale was used; (ii) it showed whether the minimum distance was set the right way; (iii) it determined the discriminative power of each characteristic; (iv) it showed in a histogram the distribution of the varieties in the characteristics; (v) it gave a

complete biometrical evaluation whereby the COY method might cause less varieties to be declared distinct than the 2x1% criterion; (vi) it showed the correlation between characteristics. All results were, however, based on national data only. It was still an open question how to work with data from different countries since the UPOV Test Guidelines should be applicable to all UPOV member States. The expert from Germany also informed the Working Party that document TWC/14/9 on a tool to find the correct population standards for different sample sizes and off-types prepared by Spain, and document TWC/14/4, on acceptance probability curves to define an appropriate sample scheme, prepared by France were useful documents when handling visually-assessed characteristics.

25. For the assessment of uniformity of self-fertilized and vegetatively propagated species using off-types, the expert from Germany informed the Working Party that document TWC/14/3 was a draft for a new document that in future will replace document TWC/11/16. He added that the draft would still need to be revised but that it offered better explanations than those contained in document TWC/11/16, which still remained the applicable document.

26. For the use of COYD method, document TWC/14/7 was a draft aimed in future at replacing the old document TC/30/4, although it had undergone some changes during the TWC meeting that should be incorporated and submitted for approval at the next session of the Technical Committee. The working Party was informed that documents TWC/14/5 and 6 contained an updated index of TWC documents.

27. Document TWC/14/14 on similarity, clustering and dendrograms was also introduced to the Working Party. The expert from Germany explained that some other documents on clustering methods also exist, but that they concentrated mainly on the question of distances between varieties without establishing a border when distances are small.

28. The Working Party was informed by the expert from Germany about a software package called "SMART" in World Wide Web, which contained advanced statistical and mathematical techniques of interest to researchers that could be used as a tool to handle statistical methods. More detailed information about this is reproduced in Annex V of document TWC/14/19 Prov.

29. The expert from Germany explained to the Working Party that the application of statistical methods to the DUS testing could provide interesting information like histograms, although it would mean an extra load of work for the experts. He added that a practical limit also existed and it was time consuming, but that it could be interesting for crops for which a sufficient amount of data had been already collected, not for crops for which DUS Testing results are limited. He concluded that in his experience with French bean and celeriac, the use of these methods gave a lot of information on minimum distances, but they should not be used as routine methods.

30. The Working Party agreed that sequential analysis was not a useful method for vegetable crops.

31. One expert noted that for measured characteristics the DUS testing could not be carried out based solely on statistical methods and that for easily observed characteristics COYD analysis was of little use. If the percentage of measured characteristics was quite low it would

not be worth the work that the statistical methods needed. Another expert argued that the most difficult thing was to learn how to use these methods. As data from measured characteristics were already in the computer, therefore no additional work would be needed and for visually-assessed characteristics an ANOVA approach could be used.

32. The representative from UPOV informed the Working Party that the results of the questionnaire on image analysis had been already distributed through circular U 2220.

GM Varieties

33. The representative from the UPOV Office informed the Working Party that with agricultural crops the DUS Testing procedure of GM varieties was only carried out if the release authorization of the GM variety, for which protection was sought, had been obtained. The experts reported to the Working Party on the applications for GM varieties in their countries. Israel reported that one application had been filed and was currently being examined, the Netherlands reported on 6 applications of leaf chicory, which were genetically modified to male sterile varieties. These varieties had only received release authorization to be used in the trials. The expert from United Kingdom reported that only applications of GM varieties of potato and turnip rape had so far been received. The expert from France reported on one application for national listing for a melon variety resistant to a virus. The expert from the CPVO reported that some applications had been received for GM varieties of colza.

34. The expert from France informed the Working Party that he would send a questionnaire to the UPOV member States to prepare a document on the national requirements with respect to GM varieties.

Final Discussions of the draft Working Papers on Test Guidelines

Spinach (Revision)

35. The Working Party noted the draft Test Guidelines for Spinach (Revision) as reproduced in document TWV/30/8. It finally made the following main changes to document TWV/30/8:

(i) Conduct of Tests: to delete the sentence "for additional tests..." in Paragraph 3.

(ii) Methods and Observations: to include the sentence "An additional tolerance of 3% for clearly recognized inbred plants should be applied" in Paragraph 2 and to delete Paragraph 3.

(iii) Grouping of Varieties: to delete subparagraph (ii), to renumber subparagraph (iii) into subparagraph (ii) and to add a new subparagraph (iii) reading "Flowering plants: proportion of male plants (characteristic 16)" in Paragraph 2.

(iv) Table of Characteristics:

Characteristics

3 To be deleted

6, 7, 9 To receive an asterisk

10 To read "Leaf blade: shape (excluding basal lobes) and to receive the example variety "Maracas"for Note 6.

11 "Involute" to be replaced by "incurved" and "revolute" by "recurved"

12 To read "Leaf blade: shape of apex" and the symbol "+" to be deleted

13 To read "Leaf blade: shape in longitudinal section," to receive an asterisk and to have the Notes "1, 2, 3"

17 To receive the example variety "Maracas"for Note 1.

18 All example varieties to be replaced by example varieties given in Ad.18

19 Several example varieties to be added.

(v) Explanations on the Table of Characteristics

Ad. 9 To have the petiole dotted in the drawing

Ad. 12 To be deleted

Ad.18 Symbols "+" and "–" and the sentences "susceptible varieties can be used as host varieties. Resistant varieties are example varieties" to be deleted

Ad.19 The word "pathotypes" to be subsituted with "isolates," the word "type" with the word "storage," and the words "on leaves" to be added. During the execution of the test, to include the sentence "preparation of inoculum: the mixture of isolates is ground in water (dilution 1:10)"; the paragraph explaining the method of inoculation to read "plants are dusted with carborundum powder on two to three leaves and then rubbed with a sponge soaked in inoculum" and the order of host varieties to be inverted.

(vi) Technical Questionnaire: to delete Characteristic 5.2 and characteristics 4, 15 and 16 of the Table of Characteristics to be added. Paragraph 7.2 to include the word "only" before "in glass house" and "in the open."

Beetroot

36. The Working Party noted the draft Test Guidelines for Beetroot (Revision) as reproduced in document TWV/30/9. It finally made the following main changes to document TWV/30/9:

(i) Methods and Observations: in Paragraph 2 to change population standard to 2% and to include the sentence "additional tolerance of 2% for clearly recognized inbred plants should be applied" and to increase the number of off-types to 7. In Paragraph 4 to read "all observations on the root should be made on fully developed root when the color is not changing anymore."

(ii) Table of characteristics

Characteristics

2 To receive an asterisk and to correct the name of the example variety "Albina Vereduna"

4, 6, 12, 14, 15, 18, 19, 25 To receive an asterisk

16 To receive two additional example varieties

17 The German translation to be corrected from "Breite" to "Länge"

23 The asterisk to be deleted.

(iii) Explanation on the Table of Characteristics

Ad.16 The Notes to be changed to "1, 2, 3, 4, 5, 6"

Ad.25 To receive an additional sentence in the first paragraph reading "and subjected to," and the words "will be conveyed" to be deleted and to receive changes in the wording of the sentence in brackets in the second paragraph to read "2 °C minimum temperature, ventilation temperature at 7 °C."

Leaf Chicory

37. The Working Party noted the draft Test Guidelines for Leaf Chicory (Revision) as reproduced in document TWV/30/11. It finally made the following main changes to document TWV/30/11:

(i) To delete the full stop after "partim" in the cover page and in the thierd page.

(ii) Methods and observations: In paragraph 2 to change population standard to 3%, to increase the number of off-types to 6. To receive an additional sentence reading "additional tolerance of 5% is accepted for clearly recognized inbred plants."

(iii) Grouping of varieties: To add characteristic 7 as a grouping characteristic and to change the wording of characteristic 19 to read "Plant: head formation" in Paragraph 2.

(iv) Table of Characteristics

Characteristics

1 The name of the characteristic to be corrected

5 to have the words "(as for 4)" instead of "(as for 5)".

7 To have the words "excluding midrib"

8 To have the words "as for 7" and to receive an asterisk

12, 13 To receive an asterisk and the number in brackets to be corrected

14 The states of expression to be changed to "strongly concave, weakly concave, flat, weakly convex, strongly convex" and the Notes to be changed to "1, 2, 3, 4, 5"

15, 20, 31 To receive an asterisk

23 To have the word "rectangular" as the first state of expression and the Notes changed to "1, 2, 3, 4, 5"

27 To receive an asterisk and the order of the example varieties to be inverted

28 To change the wording of the characteristic to read "Plant: stem formation (at harvest maturity)" and to receive an asterisk.

29 To have an additional sentence in brackets reading "for stems forming types only" and the states of expression to be changed to "weak, medium, strong"

30 The asterisk to be deleted

32 To have the additional states of expression "very early" and "very late", the Notes to be changed to "1, 3, 5, 7, 9" and to receive additional example varieties.

(iv) Explanations on the Table of Characteristics

A matrix of color intensities to be included with example varieties, to be prepared by the expert from France.

(v) Literature: To receive additional literature provided by the expert from Germany.

(vi) Technical Questionnaire: Characteristic 7 to be included from the Table of Characteristics, characteristic 5.8 to be corrected in accordance with the Table of Characteristics and characteristic 5.9 to be deleted.

Ginger

38. The Working Party noted document TWV/30/10 and made the following main changes:

(i) Conduct of Tests: In Paragraph 1 the sentence "with two consecutive plantings of the same plant material" to be included.

(ii) Methods and Observations: To have the word "tallest" inserted in the last line of Paragraph 3. To have the words "and the root" deleted in Paragraph 4.

(iii) Table of Characteristics

Characteristics

1 To have the Notes "1, 3, 5"

4 To read "Plant: attitude of top leaf"

5 To have the word "leaf" replaced by the word "Plant"

10 To have the Spanish spelling of "medio" corrected

13 To have the states of expression "small" and "large" replaced by "low" and "high," respectively

21 To have the word "Sprouting" in lowercase lettering.

(iv) Explanation of the table of characteristics: to change the explanation of the drawing to read "attitude of top leaf".

(v) Literature: To have the references corrected from "Hiroshi, A" to "Aoki, H" and from "Tsutomu, O" to "Ogawa, T."

Pumpkin

39. The Working Party noted the draft Test Guidelines for Pumpkin (Revision) as reproduced in document TWV/30/12. It finally made the following main changes to document TWV/30/12:

(i) Methods and Observations: The sentence "An additional tolerance of 1% for clearly recognized inbred plants should be applied" to be included in Paragraph 1.

(ii) Grouping of Characteristics: Characteristic 27 to be subsituted with 26 and characteristic 32 to be included.

(iii) Table of Characteristics

Characteristics

2 The states of expression to be changed to "bushy, semibushy, trailing", and the Notes into "1, 2, 3." The German translation of trailing to be corrected and additional example varieties to be received

4, 6, 8, 10 To receive an asterisk

13 To be deleted

15, 16 To receive an asterisk

20 The name of the characteristic to be changed to "Fruit: shape in longitudinal section," "globular" to be susbstituted with "circular" and to receive an additional last state of expression "rectangular"

21 The words "basal part" to be substituted with "stalk end" and all states of expression to be substituted with "depressed, flat and raised" and the Notes with "1, 2, 3"

22 The words "apical part" to be substituted with with "apical end" and to have the same states of expression and Notes as characteristic 21

23 To have the example variety "Big moon" deleted

26 To receive an additional state of expression "grey green" with Note 7, and Note of "grey" to be changed to 8

30 To become characteristic 33

31 To become characteristic 34

33 To become characteristic 30 and to receive an asterisk

34 To become characteristic 31

35, 36, 37, 38 To receive an asterisk.

(iv) Explanations on the Table of Characteristics

Ad. 20 Drawings to be changed and renamed accordingly

Ad. 35 To be substituted with number 36, the wording "Seed: shape" to be changed and the drawings to be substituted.

(v) Literature: To receive new references provided by the expert from UK.

(vi) Technical Questionnaire: Characteristic 27 of Table of Characteristics to be substituted with characteristic 26 in Paragraph 5.

Discussion of Working Papers on Test Guidelines

Onion and Shallot

40. The Working Party noted document TWV/30/17 and made the following changes:

(i) Cover Page: To have the title changed to "Onion (Revision) and Shallot" and to have the Latin name "*Allium ascalonicum* L." added.

(ii) Subject of this Guidelines: To have the sentence "Shallots are also known as *Allium ascalonicum* L." included.

(iii) Conduct of Tests: In the fifth line of Paragraph 3 to have the sentence changed to "As a minimum, each test should include a total of 100 plants for vegetatively propagated varieties and 200 plants for seed propagated varieties, which should be divided between two or more replicates" and to have the last sentence of the paragraph deleted.

(iv) Methods and Observations: To have a new paragraph reading "For the assessment of uniformity of vegetatively propagated varieties a population standard of 1% with an acceptance probability of 95% should be applied. In the case of a sample size of 100 plants, the maximum number of off-types allowed would be 3. In the case of seed propagated varieties (excluding inbred plants in hybrids) a population standard of 2% with an acceptance probability of 95% should be applied. In the case of a sample size of 200 plants, the maximum number of off-types allowed would be 7. For clearly recognizable inbred plants an additional tolerance of 2% should be applied."

(v) Grouping of Varieties: To have the words "in longitudinal section" after the word "shape" added in Paragraph 2, the words "secondary color" to be substituted with the words "hue of color" and to have the correct spelling of the word "splitting" in subparagraph (i).

(vi) Table of Characteristics

Example varieties: To have (O) after each example variety of onion and (S) after each example variety of shallot. Example varieties of shallots will be provided for the next meeting.

Growth keys: To be provided by the expert from the United Kingdom for the next meeting.

Characteristics

2, 4, 5, 11, 15.1, 15.2, 16, 20, 21, 26, 33.1, 33.2, 34 To receive an asterisk

3 To have an example variety deleted

5 To have the name of the characteristic replaced by "Plant: number of leaves per pseudostem" and to renumber it as number 1

6.1 To have the asterisk deleted and to have example variety of state 7 replaced

6.2 To have the asterisk deleted

7.1 To have the states "narrow" and "broad" replaced by "small" and "large," to have the spelling of the example "Nocera" corrected, to have the example variety "Solido" deleted

9 To have the states "narrow" and "broad" replaced by "small" and "large" and to have the spelling of the example "La Reine" corrected

10 To have example variety "Pompei" (o) for state 1 and "Pikant" (s) for state 9 added

12.2 To read "Shallot varieties (from bulblets)"

13.1 To have the states "low" and "high" replaced by "short" and "tall"

13.2 To be limited to "Shallot varieties (as for 12.2)" with the states of expression "very short, short, medium, tall, very tall"

14.2 To be limited to "Shallot varieties (as for 12.2)"

15.1 To be have the states of expression "very small, small, medium, large, very large," to have the spelling of the example variety "La Reina" corrected, to have example variety Birnformige replaced by "Owa" and to delete the simbol +.

15.2 To be limited to "Shallot varieties (as for 12.2)" and to delete the simbol +.

16 To read "Bulb/Bulblet: position at maximum diameter" with the states of expression "towards top, at middle, towards base" and to have example varieties "Nocera and Roja de Niort" replaced by "the Kelsae"

17 To have the states of expression "very narrow, narrow, medium, broad, very broad" and to receive several example varieties

18 To be deleted

19.1 To have the characteristic replaced by characteristic 18 of document TWV/29/10

19.2 To be deleted and to have the example varieties added to the coincident states of expression of characteristic 19.1

20 To have the state of expression "depressed" included, to have the example variety "Reina de Abril" replaced by "la Reina", and "Roja de Niort "replaced by "Rouge pale,"

to have Notes "1, 2, 3, 4, 5, 6," and an example variety to be provided by Poland to be included

21 To have Notes "1, 2, 3, 4, 5"

22 To have the word "Bulblet" added

23 To have example variety "Primodoro "deleted and to have "Birnförmige" replaced by Valencia Natalia"

24 To have the states of expression "white, grey, yellow, brown, pink, red,"

25 To read "Bulb/Bulblet: hue of color of dry skin" with the states of expression "absent, greyish, greenish, yellowish, brownish, pinkish, reddish, purplish" with Notes "1, 2, 3, 4, 5, 6, 7, 8", to have example varieties reordered accordingly and to be renumbered with number 26.

26 To receive an asterisk and to be renumbered with number 25

27 To have the word "fleshy" added

28 To have the states of expression "very few, few, medium, many, very many", with the Notes "1, 3, 5, 7, 9"

30 To have the states of expression "very low" and "very high" with Notes 1 and 9 added respectively, and to receive the two example varieties "Exhibition" and "Gyselle"

31 To have the first state of expression to read "absent or very weak" and to have all example varieties deleted

32 To have the word autumn not underlined, and to have the spelling of words "früh" and spät" corrected.

31, 32 Characteristics 31 and 32 to be repeated with the words "(spring sown trials)" included and to be placed before characteristic 31

33.1 To have the sentence in brackets deleted

33.2 To have the words "(from bulblets)" included and to have the example varieties deleted

34 To have the sentence in brackets deleted, to have the spelling of the example variety "Coler" corrected and to have the "Reina de Abril" replaced by "La Reina"

35 To read "Sprouting during storage" and to have example variety "Bronco" deleted

36 To have the spelling of the example variety "Sandwich" corrected

(vii) Explanations on the Table of Characteristics

Ad.10 To have the order of the drawings inverted, and to have the states of expression and Notes included

Ad. 16 To have the order of the drawings inverted

Ad. 17 To have the wording changed accordingly with the table of characteristics.

Ad.19.1 To have the characteristic replaced by characteristic 18 of document TWV/29/10

Ad.20 To have the wording changed accordingly with the table of characteristics.

Ad.21 To have the wording changed accordingly with the table of characteristics.

Ad.28 The conditional tense "should" to be used throughout the explanations

Ad.30 To have the word "Bulb/" added to the name of the characteristic and to have the sentence "the dry matter content could also be assessed by refractometer" added

Ad.35 To have the word "after" replace by "during" in the name of the characteristic, to have the sentence "care should be taken to exclude damaged bulbs" added and to have the sentence "depending on ambient temperature" in the third paragraph deleted.

(viii) Literature: To have some new references provide by the United Kingdom included.

(ix) Technical Questionnaire: To have the Latin name of the species "*Allium ascalonicum*" included. In paragraph 4.1, to have the words "three way hybrid" included. In paragraph 5, to have characteristics 5.1, 5.2, 5.4, 5.5.1, 5.5.2, 5.6.1, 5.6.2, 5.9.1, 5.9.2, 5.10.1, 5.10.2, 5.11, 5.12.1, 5.12.2, 5.15 deleted and to have characteristics 19.1, 28, 33.1, 33.2 from the Table of Characteristics included. In paragraph 7 to have a new subparagraph reading 7.3."Dry Matter Content" with the states of expression "low, medium, high" and 7.4 "suitability for storage" with states of expression "non,short term, long term" included.

Welsh Onion, Bunching Onion

41. The Working Party noted document TWV/30/16 and made the following changes:

(i) Material required: To have the word "quality" replaced by "quantity" in the first paragraph, to have a sentence reading "seed propagated varieties: 60 g of seed, vegetatively propagated varieties: 200 plants" added.

(ii) Conduct of Tests: To have in the third sentence in the third paragraph the sentence "of seed propagated material and 100 plants for vegetatively propagated material" included.

(iii) Methods and Observations: For tolerance to have the same wording as for Onion, except for the following changes: "For seed propagated varieties the population standard would be 1%. The sample size would be 200 and the number of off-types allowed would be 5."

(iv) Grouping of Varieties: To have the characteristic 1 to read "Plant: growth type" in paragraph 2 and characteristic 11 to be deleted.

(v) Table of Characteristics

Characteristics

1 To read "Plant: growth type"

2, 3, 4, 5, 7, 9, 16 To receive an asterisk

4 To have the words "leaves/pseudostem" replaced with "leaves per pseudostem"

6 To have the words "intensity of" included

7 To have the word "colour" replaced by "hue of green color" with the states of expression "absent, yellowish bluish" and to receive an asterisk

8 To have the word "green" deleted, to have the spelling of the word "color" corrected, to have the words "(without hue)"added and to have all example varieties deleted

10 To have the states of expression "narrow" and "broad" replaced by "small" and "large" respectively

12, 13 To have the sentence in brackets deleted

14 To read "Pseudostem: diameter" and to have the states of expression "narrow" and "broad" replaced by "small" and "large" respectively

16 To have the states of expression "medium" and "very strong" deleted and to have the Notes 1, 2, 3"

17 To be deleted

18 To have the spelling of "tendency" corrected and to have the example variety "Bozu shirazu" changed into state 1

19 To have the words "in the second year" added.

(vi) Explanations on the Table of Characteristics

Ad. 12, 13, 14 To have number 3 added, to have characteristic 3 included, to have a parenthesis included, to have the word "basal" included and to have an arrow with number 3 added to the drawing.

(vii) Literature: To have the subparagraph title "Literature: Scientific Papers" deleted.

(viii) Technical Questionnaire: To have the spelling of the French name "Cive" and the German names "Winterheckenzwiebel" corrected in Paragraph 1. To have characteristics 5.4, 5.6, 5.10 in Paragraph 5 deleted and characteristics 1, 2, 3 included in the Table of Characteristics. To have a new subparagraph 7.5 in Paragraph 7, reading "male sterility" with the states of expression "absent, present" included.

Garlic

42. The Working Party noted document TWV/30/13 and made the following changes:

(i) Material Required: To have the word "germination" replaced by "sprouting."

(ii) Conduct of Tests: In the third sentence of Paragraph 3 to have the number 90 replaced by 120. In Paragraph 4 to have the word "implication" replaced by "effect," to have the word "reproduced" replaced by "propagated" and to have the word "story" replaced by "history."

(ii) Methods and Observations: In Paragraph 2, to have the words "stalk stem" replaced by "scape," to have paragraph 4 deleted, to have a paragraph reading "For the assessment of uniformity a population standard of 1% with an acceptance probability of 95% should be applied. For a sample size of 120 plants the maximum number of off-types would be 3 plants" included.

(iii) Table of Characteristics: Due to the many changes proposed by the experts, it was agreed that a new draft with the new Test Guidelines format be prepared and submitted by the expert from France to the Office of UPOV for further distribution to the professional organizations. This report does not therefore list all the changes made in the Table of Characteristics. The new draft will include in addition more literature about virus test procedures, a testing procedure for leek yellow stripe virus, an explanation on storage conditions of bulbs and new drawings for characteristic 12.

Broad Bean/Field Bean

43. The Working Party noted a report from a Subgroup which had discussed the revision of the Test Guidelines for Broad Bean and Field Bean and agreed to the following main changes in document TWV/30/15:

(i) Material Required: The minimum quantity to be supplied to be: 2000 g (or at least 2000 seeds), with a purity "for marketing certified seed (in the case of vegetable varieties standard or certified seed)."

(ii) Methods and Observations: To have the second sentence of paragraph (2) deleted.

(iii) Table of Characteristics:

Characteristics

2, 4, 10, 11, 14, 18, 22, 23, 26, 29, 31 To receive an asterisk

2 To have "habit" replaced by "type"

6 To be deleted

7 To have the words "intensity of" deleted and the word "slight" replaced twice by "weak"

10, 13 To have the words "at second flowering node" added

12 To read: "Leaflet: position of maximum width" with the states "towards tip (1), at middle (2), towards base (3)"

14 To have the words "or 3rd"deleted

18 To be checked whether a state "green" should be added

21 To have the states "small, medium, large"

22 To have "Aguadulce" replaced throughout the document by "Aguadulce Claudia"

26 To have the bracketed content "from secture to secture" added

27 To have "slight" replaced twice by "weak"

28 To receive an example variety for State 7, to be indicated by experts from Germany, otherwise the whole characteristic to be deleted

29 To have the words in brackets deleted and to read: "Pod: total number of ovules"

34 To read: "Dry seed: weight" with the states from "very low" to "very high"

35, 36 To have the word "dry" inserted before "seed"

(iv) Explanations and Methods: To have the explanations to characteristic 7 deleted, the drawings to characteristics 27 and 31 replaced by new drawings to be prepared by the expert from the United Kingdom and to have explanations to characteristics 36 included, to be

copied from the present adopted Test Guidelines (char. 31). The expert from the United Kingdom to indicate also the key for growth stages.

(v) Literature: To have the subtitles deleted.

(vi) Technical Questionnaire: To have 5.7 deleted and the following request to be included under paragraph 7:

(i) Protein content

(ii) Use of variety
- agriculture
- vegetable
- fresh market
- processing (protein)
- fodder

(vii) The revised version of the document to be sent to the experts from the TWA at the same time as it will be sent to the experts of this Working Party. The expert from the United Kingdom to also check the IPGRI descriptor on possible changes to align the document more to that descriptor.

Rhubarb

44. The Working Party noted documents TG/62/3 and working document TWV/30/5 and made the following changes in document TG/62/3:

(i) Technical Notes: In the first paragraph to have 10 plants instead of 4 and 30 single bud roots instead of 12. To have paragraph 4 deleted. To have an additional paragraph reading "For the assessment of uniformity a population standard of 1% with an acceptance probability of 95% should be applied. In the case of a sample size of 10 plants, no off-types would be allowed" included. In paragraph 5, to replace characteristic 13 with 14 and 20 with 21.

(ii) Table of Characteristics

Characteristics

1, 6, 7, 9, 14, 23, 24, 26 To receive an asterisk

3, 4 To have the state of expression "slight" replaced by "weak"

4 To have the state of expression "slight" replaced by "weak"

6 To have the example variety "Victoria" for state 3 included

7 To have the example variety "Victoria" for state 2 included

9 To have Notes 1, 3, 5

11 To have states of expression "thin" and "thick" replaced by "narrow" and "broad" respectively

11a To have a new characteristic reading: "Petiole: thickness" with the states of expression "thin, medium, thick" with Notes "3, 5, 7," with an asterisk and a (+) symbol included and to be placed before characteristic 12

12 To have symbol (+) deleted, to have the states of expression "low" and "high" replaced by "small" and "large" respectively

15 To have the words "clear of butt" deleted and to have the states of expression "uniform" replaced by "entire"

16 To have the words "at the middle" added and to have the states of expression "uniform" replaced by "entire".

17 To have the words "75mm" replaced by "just" and to have the states of expression "uniform" replaced by "entire"

18 To have the words "towards top of petiole" replaced by "just below leaf blade" and to receive additional example varieties

19 To read "Petiole: ribbing at dorsal side" and to have the word "slight" replaced by "weak"

20 To read: "Petiole: color of flesh"

25 To be placed before characteristic 21

26 To read: "Time of emergence"

27, 28, 29, 30 To be deleted.

(iii) Explanations and Methods: To have characteristic 13 replaced by 14 in Ad. 12 + 13 and to have 11 included.

Cornsalad

45. The Working Party noted documents TG/75/3 and working document TWV/30/4 and made the following changes to document TG/75/3:

(i) Technical Notes: In the first paragraph to have the quantity "50g" replaced by "150g." To have Paragraph 7 deleted. To have a new paragraph reading "For the assessment of uniformity of self-pollinated varieties a population standard of 2% with an acceptance probability of 95% should be applied. In the case of a sample size of 200 plants the maximum

number of off-types allowed would be 7" included. To have a new paragraph for grouping characteristics with characteristics 2 and 6 included.

(ii) Table of Characteristics

Characteristics

2 To have the states of expression "globular without collar, one side convex with collar," to have the example variety "Verte d'Etampes" deleted and to receive drawings to be provided by experts from the Netherlands

3 To have the states of expression "erect, semi-erect, horizontal" with Notes "1, 3, 5," to have example varieties "Verte de Rouen a coeur plein, Á grosse grain" deleted and to have example variety "Elan" included for state 3

4 To receive an asterisk and the example variety "Verte" for state 7

5 To read: "Plant: heart formation," to have example variety "Coquille blonde" deleted, to have number 2 added to example variety of state 9 and to receive an asterisk.

7 To receive an asterisk and to have example varieties of states 5 and 7 deleted

8 To have new drawings added

9 to be deleted and substituted with a new characteristic reading: "Leaf: intensity of green color" with states of expression "light, medium, dark" and to receive example varieties to be provided by France

10 To have posibly a new characteristic added reading "Leaf: hue of green color" and to wait for the expert from France to give his final opinion

11 To be deleted

12 To have the Notes "1, 2, 3," to have example variety changed from "Coquille blonde" to "Coquille de Louviers" and to have it replaced in state 2, example variety "Verte à coeur plein 2" in state 3, "Verte de Louviers" to be deleted

13 To have the Notes "1, 2, 3" deleted in all example varieties and to have "Coquille de Louviers" for state 2, "verte à coeur plein" for state 3

13b To have a new characteristic under number 14 reading "Leaf blade: torsion" with the states of expression "absent or very weak, weak, medium, strong, very strong" and the Notes "1, 3, 5, 7, 9" with example varieties "Dante" for state 3, "A grosse graine" for state 5 and "Topaze" for state 7

14 To have the asterisk and the example variety deleted and to become characteristic 15

15 To be deleted

17 To read: "Leaf blade: prominence of veins" with the states of expression "weak, medium, strong" and to have all example varieties replaced by "Verte de Louviers, Progress and Toendra" respectively

18 To be deleted

19 To have two new states of expression "very early" with Note 1 and "very late" with Note 9 included. To receive example variety "Valgros" for state 1 and "Baikal" for state 7

20 To have a new characteristic reading "Flower stem: anthocyaning coloration" with the states of expresion "weak, medium, strong" with Notes3, 5, 7, respectively, with the example varieties "Groote Noord"for Note 3, "Valvert"for Note 5 and "Pustade" for Note 7 added

To consider the inclusion of a new characteristic reading: "hue of green color" with states of expression "yellowish and greenish." The expert from France to send the final answer to the Office of UPOV.

Swede

46. The Working Party noted a report from a Subgroup which had discussed the revision of the Test Guidelines for Swede and agreed to the following main changes in document TWV/30/14:

(i) Material Required: The purity of the seed to be the purity "for the marketing certified seed (in case of vegetable varieties standard or certified seed)"

(ii) Table of Characteristics:

Characteristics

7, 8, 10, 16.1, 16.2, 18 To receive an asterisk

1, 4, 7, 8, 14, 18 To receive a plus (+)

1 To be placed after characteristic 12 and to read: "Leaf: attitude of petiole" and to have the missing state "semi-erect (3)" inserted; the expert from the United Kingdom to amend the drawings to show the petiole

2 To read: "Leaf: intensity of green color" and "green" to be deleted in the states

6 to be deleted

9 To receive the additional states "short (3)" and "long (7)"

13 To be clarified by experts from Germany whether the width or the thickness was observed

14 To have "predominant" deleted and the last state to read: "reddish purple;" the expert from the United Kingdom to prepare explanations on which color to be observed

16.1, 16.2 To have the order of the characteristics reversed and to be restricted to reddish purple skinned varieties

20 To read: "Root: diameter" with the states "small, medium, large"

22 To have the states "uniform reddish purple (1), green or purple mottled with green (2)"

25 To have "percentage" replaced by "content."

(iii) Explanations and methods: to have the references to the characteristics amended

(iv) Literature: To have the subtitle deleted.

(v) Technical Questionnaire: To have 5.8 deleted and a request to indicate the dry matter content inserted under 7.2.

(vi) The revised version of the document to be sent to the expert of the TWA at the same time as it is sent to the experts of this Working Party. The advice of the Technical Committee would be requested on whether to indicate in the Test Guidlines the address of the genebank to obtain seed of example varieties no longer available commercially. Several experts considered it inappropriate to indicate addresses in UPOV Test Guidelines.

Status of Test Guidelines

47. The Working Party agreed that the draft Test Guidelines for Spinach (Revision), Beetroot (Revision), Ginger, Leaf Chicory and Pumpkin, should be sent to the Technical Committee for final adoption.

48. The Working Party agreed that the draft Test Guidelines for Garlic, Onion and Shallot (Revision), Welsh Onion/Bunching Onion, Rhubarb (Revision) and Corn Salad (Revision) should be sent to the professional organizations for comments. The expert from France would prepare a new draft of Test Guidelines for Garlic with all the amendments proposed included and submit it to the Office of UPOV.

49. The expert from Hungary would prepare a new draft of Test Guidelines for Opium/Seed Poppy for presentation to the TWA for comments.

50. It was finally agreed to discuss or to rediscuss the Test Guidelines for the other species at the next session.

Chairmanship

51. The Working Party agreed to recommend to the Technical Committee to propose to the Council to elect Mr. Baruch Bar-Tel, Israel, as chairman of the TWV for the coming three years.

Future Program, Date and Place of Next Session

52. At the invitation of Mr. David Calvache of Spain, the Working Party agreed to hold its thirty-first session in Valencia or Almería, Spain, from November 24 to 28, 1997. The Working Party agreed to discuss the following items at that session:

(i) Short reports on special problems or difficulties encountered;

(ii) Report on the last session of the Technical Committee and recommendations resulting from that session;

(iii) General presentation of characteristics in Test Guidelines (Mr. van Ettekoven (NL) to prepare document)

(iv) GM varieties (Mr. Brand (FR) to prepare a document)

(v) Final Discussions of the draft Test Guidelines for:

(a) Welsh Onion/Bunching Onion (TG/161/1 (proj.))
(b) Onion (Revision) and Shallot, (TG/46/4(proj.))
(c) Rhubarb (Revision) (TG/62/4(proj.))
(d) Cornsalad (Revision), (TG/75/4 (proj.))
(e) Garlic (TG/162/1(proj.))

53. As the next session will take place only after the session of the Technical Committee, the Working Party will try to reach an agreement on the comments to the above Test Guidelines by correspondence, in which case they should already be presented to the Technical Committee for adoption in 1997.

(vii) Discussions of Working Papers on Test Guidelines for:

(a) Black Radish (Revision), (TG/63/3; working paper to be prepared by Mr. Baur (DE) in cooperation with Mr. Ettekoven (NL)
(b) Broad Bean (Revision), (TG/8/4, TWV/30/15)
(c) Celeriac (Revision), (TG/74/3, TWV/30/3)
(d) Celery (Revision) (TG/82/3; working paper to be prepared by Mr. Green (UK) in cooperation with Mr. Pfülb (DE)
(e) *Cucurbita moschata* (working paper to be prepared by Messrs. Brand and Breuils (FR))
(f) Curly Kale (Revision) (TG/90/3; working paper to be prepared by Mr. Green (UK)

(g) Dill (TWV/30/2)
(h) Fennel (TWV/30/6)
(i) Globe Artichoke (TWV/28/18; working paper to be prepared by Mr. Brand (FR))
(j) Industrial Chicory (TWV/30/19)
(k) Kohlrabi (Revision), (TG/65/3; working paper to be prepared by Mr. Pfülb (DE))
(l) Leek (Revision) (TG/85/3; working paper to be prepared by Mr. Van Marrewijk (NL))
(m) Lentil (working paper to be prepared by Mr. Boulineau (FR))
(n) Okra (*Abelmoschus esculentus*) (working paper to be prepared by Mr. Yuasa (JP) in cooperation with Mr. Singh (IN))
(o) Opium/Seed Poppy (TWV/30/7; new document to be prepared by Mrs. Kristóf (HU))
(p) Radish (Revision) (TG/64/3; working paper to be prepared by Mr. Ettekoven)
(q) Swede (Revision) (TG/89/3, TWV/30/14; new document to be prepared by the Office of UPOV)
(r) Turnip/Turnip Rape (Revision) (TG/37/7; working paper to be prepared by Mr. Green (UK))
(s) Witlof (TWV/30/18)

54. The Working Party decided that if a document to be prepared by an expert had not been received by the Office of UPOV by four weeks before the meeting and distributed to the participants, the item would be deleted from the agenda.

Visits

55. On Wednesday, July 10, the Working Party visited a private growing station called Jizní Morava in Tvrdonice, near the Slovakian border, which is mainly dedicated to the hydroponic culture of tomatoes and the growing of carnations. Afterwards, the Working party visited the Central Checking and Testing Institute of Agriculture of Úzkúz, Brno. It was finally shown the trial fields in Lednice for different vegetable species.

56. *This report has been adopted by correspondence*

[Annex follows]

ANNEX I

# PARTICIPANTS LIST

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