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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL WORKING PARTY
FOR
VEGETABLES

Twenty-sixth Session

Dachwig, Germany, June 30 to July 3, 1992

REPORT

adopted by the Technical Working Party for VegetablesOpening of the Session

1. The twenty-sixth session of the Technical Working Party for Vegetables (hereinafter referred to as "the Working Party") was held in the Federal Plant Varieties Office testing station at Dachwig, Germany, from June 30 to July 3, 1992. The list of participants appears in Annex I to this report.

2. Dr. D. Böringer, President of the Federal Plant Varieties Office, as well as Dr. J. Habben and Dr. W. Kaufhold, Head of the Testing Station Dachwig, welcomed the participants. The session was opened by Mr. N.P.A. van Marrewijk (The Netherlands), Chairman of the Working Party.

Adoption of the Agenda

3. The Working Party adopted the agenda for its twenty-sixth session, which is reproduced in document TWV/26/1.

Short Reports on Special Problems or Difficulties Encountered

4. The Working Party noted the difficulties in the testing of varieties of formerly seed-propagated species where, through vegetative propagation, differences could now be seen which resulted only from the difference in propagation. Thus, in tomato obtained from tissue culture, changes could be observed, due to epigenetic effects on the phenotype, in the physiological characteristics (earliness, for example, but to a certain degree also fruit size). In The Netherlands, the authorities would ensure through repetitive testing that differences in the propagation would not lead to a second grant of rights. Similar behavior was found in cucumber, where more morphological characteristics (fruit length and neck shape) changed. Here, it was tried to remove from the tissue culture the possible hormone effect on the expression of the variety's characteristics through cuttings. The Working Party was aware that in future more vegetative propagation might take place by tissue culture in laboratories and it would have to follow developments very carefully.

5. Mr. Valvassori (EC) reported on a new marketing scheme adopted by the EC on April 28, 1992, which would also cover propagation material other than seeds, but mainly young plants from seed or tissue culture. In the annex to that scheme appeared a long list of species which, however, could be further enlarged. The assessment of the variety would be made in the same way as in the previous scheme for seed propagation.

Report on the Twenty-Seventh Session of the Technical Committee and Recommendations Resulting from that Session

6. Dr. M.-H. Thiele-Wittig gave a brief report on the main items discussed during the last session of the Technical Committee, referring for further details to the full report reproduced in document TC/27/9.

UPOV Central Computerized Data Base

7. Dr. M.-H. Thiele-Wittig reported on the history of the discussions concerning a possible UPOV central computerized data base, referring to a questionnaire, the answers to which had resulted in document TWC/10/2. He furthermore reported on the results of the discussions on the same subject held in the Technical Working Parties on Automation and Computer Programs and for Agricultural Crops. In the Technical Working Party for Agricultural Crops a list of minimum information for inclusion in the UPOV Central Computerized Data Base had been established. The Working Party followed the proposed list of minimum information and approved it after having added a further line requesting information on the applicant. The amended list is reproduced in Annex II to this report. With respect to the maximum delay in the distribution of information, the Working Party proposed that it should initially be three months with the possibility of reducing it to one month at a later time. With respect to the kind of information to be extracted from the data base, there should be no limitation and it should be possible to combine all information in the data base. Confidential information should be made available to the authorities of member States only. If a subgroup were to meet to further discuss the subject, the Working Party proposed that Mr. Breuils (France) be elected as a member of that subgroup. In addition, it might be useful to also invite an expert from the EC to participate.

Testing of Bremia lactucae

8. The Working Party noted document TWV/26/8 containing the proposal for the testing of resistance of lettuce varieties to Bremia lactucae. It proposed that the text of that document be inserted under paragraph VIII of the Test Guidelines for Lettuce, after having included under item 2 as currently useful Dm-gene "19(*)", changed under 7(b) the heading to read "host differential" and deleted (iii) in the same subparagraph, and after having replaced the word "must" by "may" in the second sentence of 7(e). Number 8 (Literature) would be included as usual under chapter IX of the Test Guidelines after having added another citation with respect to Dm-gene.

New Methods, Techniques and Equipment in the Examination of Varieties

9. The expert from France reported that, while research was planned or already going on for several species, so far new methods such as electrophoresis or DNA methods were not used in taking a decision for DUS purposes, in order not to reduce the minimum distance between varieties. Thus, for pea and field pea, electrophoresis was applied as a routine matter to complement the variety description. Electrophoresis was applied to asparagus and work was to begin with respect to carrot and garlic. So far, there had been no success with garlic as only three groups could be separated. Therefore, DNA probes would be tried out for that species in France. It was also planned to apply DNA probes to sweet pepper. Research with image analysis had also started on onions and carrots.

10. Dr. Habben (Germany) reported on the trials with electrophoresis on asparagus, which made use of the EC trials in cooperation with France, Italy and The Netherlands. Three different isoenzymes would be checked on phytoclades of 80 plants. Preliminary studies were being undertaken with respect to beans and peas with the intention of using electrophoresis in the post-control. A feasibility study was underway with respect to the use of image analysis but results could be expected only at the end of this year. It was planned to study shape characteristics in particular. So far, color measurements were only undertaken in ornamental species.

11. Mr. van Marrewijk (The Netherlands) reported on studies on image analysis, measuring the pod shape of peas and beans, the bulb shape of onions and shallot, as well as the blistering in lettuce. This year, the pod shape of peas and beans would be routinely used for all varieties. When comparing measurements and observations, it became apparent that the measurements by hand showed a bigger variation than those made by image analysis. With respect to DNA probes, a study was underway on tomato, especially in the area of the non-expressed genome, and a high degree of polymorphism had been observed. This year, all varieties under test would be checked with that method. Color measurements would only be taken in ornamental species. In The Netherlands, electrophoresis had so far been applied to agricultural species only. A pilot study had been made for some vegetable species such as shallot and asparagus (1988/89). The Dutch Board of Plant Breeders' Rights had decided that the characteristics obtained with the help of electrophoresis, RFLPs or PCR might be added, as an annex, to the description of the variety if they related to the sample. This would be particularly important for mushroom varieties.

12. Mr. Valvassori (EC) reported that the EC seed legislation did not mention any new techniques, although it made a clear reference to new techniques where the approach to controlling the seed was concerned. There were provisions intended to develop alternative seed control and to complement official seed inspection with these methods. It was also planned to use electrophoresis in EC comparative trials for identity control.

13. The Working Party agreed that it was necessary to listen to the breeder also and to encourage the use of new methods. However, caution was necessary and, as those methods could never replace the field work completely, it was necessary to continue further development of the field trials.

Cooperation with Breeders in the Testing of Varieties

14. The Working Party had a rather short exchange of views on cooperation with breeders in the testing of varieties without reaching any conclusions. The subject was obviously of less importance to the testing of vegetable species and the Working Party therefore agreed to discontinue discussions on the matter, but would follow the experiments and developments in the other Technical Working Parties.

Umbrella Varieties and Trials on Large-Leaved Chicory

15. The Working Party noted that the trials on large-leaved chicory had not yet been completed and therefore postponed discussions on the subject to the coming session of the Working Party. With respect to umbrella varieties, Mr. Valvassori (EC) reported that the work on the separation into several different varieties had been completed. A 544-page document had been prepared by the Commission of the European Communities on the EC "Umbrella" Varieties Programme for Vegetables including the renewal of the official acceptance of certain old vegetable varieties and their derivations (Council Directive 70/458/EEC on the marketing of vegetable seed). Copies of this voluminous document were handed out to the individual experts. Part I of the document contained administrative and legal aspects in four chapters, namely (1) List of varieties classified as being "umbrella" varieties; (2) Splitting of the "umbrella" varieties and names to be borne by the varieties derived therefrom; (3) Implementation of the renewal of acceptance of the "umbrella" varieties in the National Catalogues of the Member States and in the Common Catalogue; (4) Persons responsible for the maintenance of the "umbrella" varieties officially registered at the time of the renewal; and Part II technical aspects in three chapters, namely (1) Characteristics used to describe the varieties; (2) Descriptions of the varieties; and (3) Maintenance of the varieties included in the investigation.

Final Discussions of the Draft Test Guidelines for Cabbage

16. The Working Party noted document TG/48/4(proj.) and comments received on that document from the British Society of Plant Breeders Ltd. It responded that it was aware of the fact that with respect to characteristic 18 ("Head: shape of longitudinal section") some tolerance was necessary as the precise shape could vary with the seasons and location. With respect to the comments on the explanations to characteristic 6 ("Outer leaf: shape of blade"), it clarified that the leaf should be flattened out as far as possible before observation of the shape. The Working Party furthermore only indicated in characteristic 7, Note 7, the group of the example variety "Sablo (S)".

Discussion of Working Papers on Test Guidelines

Test Guidelines for French Bean (Revision)

17. The Working Party noted document TWV/26/6 as well as the method for characteristic 45, distributed during the session. The Working Party finally made the following main changes in document TWV/26/6:

(i) Methods and Observations: The Working Party added to paragraph 2 at the end the following: "...harvested from the plots. The seed weight should be measured on four samples of 100 seeds." and at the end of paragraph 3 the words "on at least 20 plants".

(ii) Table of Characteristics:

Characteristics

- 10 To be placed after characteristic 43
- 21 To receive a "+" and, in the explanations, three rows of example varieties
- 26 To have the asterisk deleted
- 30 To be deleted
- 34 To have three states "circular (1), elliptic (2), kidney-shaped (3)"; after this characteristic, a new characteristic to be inserted reading: "Varieties with kidney-shaped seed only: Seed: degree of curvature" with the states "weak, medium, strong"; example varieties to be supplied by Spain
- 39 To receive the bracketed addition "largest area"
- 40,41 To have the word "main" replaced by "predominant"
- 45 The expert from Germany to indicate a new wording of this characteristic, stating "absent" or "present" when referring to immunity and hypersensitivity (e.g. absent, present by hypersensitivity and present by immunity) and deleting the word "blackroot" in the characteristic
- 46 To have the states from "absent to very low (1)" to "very high (9)"
- 47 To receive the same states as characteristic 46, but to be kept with reservation and to be deleted if no more evidence could be supplied on the mechanism of resistance.

(iii) Explanations on the Table of Characteristics:

- Ad 44 To have the last sentence of the part on pre-germination replaced by the words "at least 2 times 10 seeds", to be placed at the beginning of that part and to have the word "infestation" replaced by "reaction"
- Ad 45 The expert from Germany to prepare a new wording of the method
- Ad 46 To have the last sentence under the heading "Inoculation" deleted. The experts from Hungary to prepare drawings for the states of the Notes 7 and 9.

The Working Party furthermore added, deleted or replaced several example varieties. It discussed a proposal to include the example varieties in a separate annex that could be replaced if too many example varieties had disappeared. Sets of regional example varieties would also be possible that way (TWA). Mr. Bar-Tel (IL) promised to prepare a proposal before the end of 1992, but the bean guidelines should not be delayed by this proposal.

(iv) Literature: To receive the additional literature "DRIJFHOUT, E., 1978: "Genetic interaction between Phaseolus vulgaris and bean common mosaic virus with implications for strain identification and breeding for resistance".

Test Guidelines for Peas (Revision)

18. The Working Party noted document TWV/26/10, distributed during the session, and made the following main changes in that document:

(i) Methods and Observations: The Working Party added the following paragraph 3: "With the exception of characteristics 1 to 9, all observations on the seed should be made on dry seed harvested on the plots. The seed weight should be measured on two samples of 100 seeds."

(ii) Characteristics and Symbols: To receive under paragraph 3 (Legend) the following:

"(A) See additional information in the Annex
ex cv. The use of the abbreviation "ex cv." in front of an example variety shows that the host differential was selected from the variety mentioned."

(iii) Table of Characteristics:

Characteristics

17 To have the states "light, medium, dark"

66 To read: "Dry seed: weight"

Test Guidelines for Watermelon

19. The Working Party noted document TWV/26/2 and the report of an ad hoc subgroup which had met in the evenings to advance the discussions. The Working Party made the following main changes in document TWV/26/2:

(i) Methods and Observations: The Working Party added the following paragraph: "All observations on the seedling should be made in the laboratory under controlled conditions according to the rules of the International Seed Testing Association (ISTA)."

(ii) Grouping of Varieties: The Working Party added the grouping characteristic "Seed: ground color of testa (characteristic 62)".

(iii) Table of Characteristics:

Characteristics

2 To have the example varieties checked by the experts from Japan

- 5 To receive an asterisk
- 9 To have the states with the Notes 4 and 6 deleted
- 10,11 To be deleted
- 12,15,16,17 To receive an asterisk
- 14 To be deleted
- 20 To read: "Leaf: degree of lobing (beyond first flower)"
- 21 To have the bracketed addition "as for 20"
- 24 To receive an asterisk
- 26 To receive the bracketed addition "third to seventh flower"
- 28 To have the asterisk deleted
- 30 To be deleted
- 31 To read: "Ovary: pubescence" with the states "weak, medium, strong"
- 33 To have the states with the Notes 4, 6 and 8 deleted and the remaining states to have the Notes from 1 to 4
- 34,40,41 To receive an explanation stating "the ground color is defined as the lighter color and the color of the stripes as the darker color"
- 37 To be deleted
- 39,41 To receive an asterisk and to have the states "flat (1), flat to rounded (2), rounded (3), rounded to conical (4), conical (5)"
- 43 To have the asterisk deleted
- 44,46 To be deleted
- 45 To have the states "absent (1), at basal half (2), at apical half (3), on whole fruit (4)" and the example varieties to be checked
- 53 To receive the additional state "purple"
- 56,57,59,61 To be deleted
- 60 To have the additional states "very small, very large"
- 62 To have the states "white, cream, green, red, red-brown, brown, black" and new example varieties
- 64,68 To be deleted
- 65 To have the asterisk deleted
- 69 To read: "Time of female flowering (50% of plants with at least one female flower)"
- 70 To be deleted

73 To be split into three characteristics with the races 1, 2 and 3.

In addition, the Working Party amended the example varieties and asked the experts from Japan and Hungary to supply further example varieties.

(iv) Explanations to the Table of Characteristics: The Working Party accepted the methods with respect to characteristics 72 and 73 distributed during the session.

(v) Literature: The Working Party accepted the literature distributed during the session.

Test Guidelines for Cucumber, Gherkin (Revision)

20. The Working Party noted documents TWV/26/3 and TWV/26/9. It agreed to the drawings and methods contained in the latter document and made the following main changes to document TWV/26/3:

(i) Material Required: The Working Party replaced the word "seed" in paragraph 1 in the fifth line by the words "plant material or seed".

(ii) Conduct of Tests: The Working Party replaced the number of "60 plants" in paragraph 3 by "50 plants".

(iii) Methods and Observations: In paragraph 2, the words "fully developed" to be placed before the word "leaves". In paragraph 3, the words "between market stage and physiological ripening of the fruits" to be replaced by "from market stage and before physiological ripening of the fruits". In paragraph 4 the words "about one week" to be replaced by "just".

(iv) Table of Characteristics:

Characteristics

3 After this characteristic, a new characteristic to be inserted reading:
"Plant: length of internode of side shoot" with the states "short, medium, long"

11 To have the last state read: "almost exclusively female flowers"

16 To have the additional states "absent or very small, very large"

22 To receive the additional word "predominant" and to have the order of the states changed as follows: "necked (1), acute (2), obtuse (3)"

25 To have the addition "at market stage"

34 To have the asterisk deleted

47 The experts from The Netherlands to indicate the testing method.

In addition, the Working Party amended the example varieties and asked the experts from Japan and Hungary to supply further example varieties.

(v) Literature: To keep only the first, second and fourth items of the literature cited.

Test Guidelines for Sweet Pepper, Hot Pepper, Paprika

21. The Working Party noted document TWV/26/4 and made the following main changes in that document:

(i) Subject of these Guidelines: The English common name to read: "Sweet Pepper, Hot Pepper, Paprika".

(ii) Material Required: To have only one common quantity of seed which would be "10 g"

(iii) Methods and Observations: To have the following words added at the end of paragraph 2: "beyond the first branching on secondary side shoots" and to have an additional paragraph on the resistance to be copied from paragraph 3 of the Test Guidelines for French Bean.

(iv) Grouping of Varieties: To have characteristic 15 replaced by characteristic 11, to have characteristic 30 deleted and to have the additional grouping characteristic 40.1 added.

(v) Table of Characteristics:

Characteristics

- 4 To have the order of the states reversed
- 5 To read: "Plant: number of flowering nodes with more than two flowers after first branching", the wording to be checked again by the experts from Hungary who would also prepare drawings for explanation
- 11 To receive an asterisk and to have the state "horizontal" deleted
- 13 To have the first state read "greenish white"
- 15 To have the asterisk deleted
- 20 To receive drawings to be prepared by experts from Hungary
- 28 To have the asterisk deleted
- 30 To be placed after characteristic 31 and to have the first state read: "predominant two"
- 33 To be placed after characteristic 37
- 34 To read: "Placenta: size compared to fruit size".

The Working Party amended the list of example varieties. The experts from Hungary would state further example varieties and the experts from France would give methods for the resistance characteristics 40, 41 and 42.

(vi) Literature: The literature item "Bosland, P.W., 1992: "Chiles: a diverse crcp" was added.

(vii) Technical Questionnaire: In paragraph 5, characteristic 15 was replaced by characteristic 11 and, in paragraph 7.2 (ii), the words "industrial processing" were separated into "canning" and "powder".

Test Guidelines for Chick Pea

22. The Working Party noted document TWV/26/5 and made the following main changes in that document:

(i) Methods and Observations: To have the additional sentence in paragraph 2 reading: "The seed weight should be measured on two samples of 100 seeds."

(ii) Table of Characteristics:

Characteristics

- 7 Before this characteristic, a new characteristic to be inserted reading: "Leaf: incision of blade" with the states "pinnate (1), bipinnate (2)"
- 8 To have the second state read: "purplish pink"
- 13 To have the states "one, one and two (11 to 50% of pods with 2 ovules), two"
- 14 To have the last but one state read: "reddish brown"
- 16 To read: "Seed: weight" with the states from "very low" to "very high"
- 20 To have the spelling of the example variety "Cabri" corrected
- 21 To have the Latin name corrected to "Ascochyta rabici".

(iii) Literature: The Working Party noted 4 references supplied by the experts from The Netherlands.

Test Guidelines for Lettuce (Revision)

23. The Working Party noted documents TWV/XXIII/4 Rev. and TWV/26/7 and made the following main changes in those documents:

(i) With respect to document TWV/XXIII/4 Rev., it accepted the whole document, with the exception of the Table of Characteristics, with the following changes: it deleted paragraph IV(5) and separated under paragraph 7.2(i) of the Technical Questionnaire the type of culture (glasshouse or open) from the season of growing (spring, summer, autumn, winter).

(ii) With respect to the Table of Characteristics, it accepted document TWV/26/7 with the following changes:

Characteristics

- 1 To have the word "Dry" deleted
- 5 To receive additional example varieties
- 8 To have the word "intensity" replaced by "degree"
- 19 To be deleted

- 19a,19b To receive an asterisk, 19b to receive in the Explanations separate lists of example varieties
- 22,23 To have the asterisk deleted
- 25a To be placed after characteristic 5
- 27 To read: "Leaf blade: density of undulation of margin" with the states "absent or very sparse" to "very dense"
- 28,29 To be replaced by the following 3 characteristics:
- "Leaf blade: presence of incisions of apical part" with the states "absent, present"
 - "Leaf blade: depth of incisions on margin of apical part" with the states "shallow, medium, deep"
 - "Leaf blade: density of incisions on margin of apical part" with the states "sparse, medium, dense"
- 30,31 To be deleted
- 34 To be deleted
- 35 To have the asterisk deleted
- 37 Before this characteristic, a new characteristic to be inserted reading: "Axillary sprouting" with the states "absent or very weak, weak, medium, strong, very strong" with the example varieties for each of the states
- 39 To be split into 10 characteristics with the 10 races as indicated in paragraph 4 of document TWV/26/8 on the testing of resistance against Bremia lactucae and with the example varieties to be indicated by the experts from France and The Netherlands by the end of September
- 40 The experts from The Netherlands to indicate the strain and the method by the end of September.

Test Guidelines for Oenothera

24. The Working Party noted document TWV/25/6. It did not make any comments to that document during the meeting, but agreed that any comments from the experts should be sent to Mr. Bar-Tel (Israel) before the end of September 1992, to enable him to prepare an amended document, if necessary, which then could be sent to the professional organizations for comments.

Test Guidelines for Cauliflower (Revision)

25. The Working Party noted document TWV/XXIII/3 Rev. Lack of time did not allow the Working Party to discuss it further than characteristic 10. During these discussions, the Working Party made the following main changes in that document:

(i) Conduct of Tests: It changed the number of plants in paragraph 3 to "60 plants".

(ii) Methods and Observations: In paragraph 1 the number of plants was twice changed to "40 plants" and paragraph 3 was deleted.

(iii) Table of Characteristics:

Characteristics

- 3 To have the bracketed information replaced by "up to insertion of first leaf"
- 4 To have the Notes "3, 5, 7"
- 8 To be deleted
- 9 To be separated into 2 characteristics, the first reading: "Leaf: color (with wax if present)" with the states "green, grey-green, blue-green, violet green" and the second to read: "Leaf: intensity of color (with wax if present)" with the states "light, medium, dark"
- 10 To have the additional states "absent or very weak, very strong".

In these characteristics, the Working Party also amended several of the example varieties.

Status of Test Guidelines

26. The Working Party agreed that the draft Test Guidelines for Cabbage should be sent to the Technical Committee for final adoption.

27. The Working Party agreed that the draft Test Guidelines for French Bean (Revision), for Peas (Revision), for Watermelon, for Cucumber, Gherkin (Revision), for Sweet Pepper, Hot Pepper, Paprika, for Chick-pea, for Lettuce (Revision) and for Oenothera should be sent to the Professional Organizations for comments after the missing information had been included.

Future Program, Date and Place of Next Session

28. At the invitation of the expert from Denmark, the Working Party agreed to hold its next session in Arslev, Denmark, from July 6 to 9 (noon), 1993. The Working Party planned to discuss the following items at that session:

- (i) Short reports on special problems or difficulties encountered;
- (ii) Report on the twenty-eighth session of the Technical Committee and recommendations resulting from that session;
- (iii) New methods, techniques and equipment in the examination of varieties;
- (iv) Final discussion of the draft Test Guidelines for:
 - (a) French Bean (Revision) (TG/12/5(proj.))
 - (b) Peas (Revision) (TG/7/6(proj.))
 - (c) Watermelon (TG/142/1(proj.))
 - (d) Cucumber, Gherkin (Revision) (TG/61/4(proj.))
 - (e) Sweet Pepper, Hot Pepper, Paprika (TG/76/4(proj.))
 - (f) Chick Pea (TG/143/1(proj.))
 - (g) Lettuce (Revision) (TG/13/5(proj.))
 - (h) Oenothera (TG/144/1(proj.))

(v) Discussion of working papers on Test Guidelines for:

- (a) Cauliflower (Revision) (TG/45/3, TWV/XXIII/3 Rev. + new working paper to be prepared by Mr. Van Marrewijk (NL))
- (b) Broccoli (TWV/XXIII/7 and 13 + new working paper to be prepared by Messrs. Breuils and Brand (FR))
- (c) Spinach (Revision) (TG/55/3, TWV/XXI/11 + new working paper to be prepared by Dr. Habben (DE))
- (d) Onion (Revision) and Shallot (TG/46/3, TWV/XXIII/8, TWV/XXIII/9 Rev. + new combined working paper to be prepared by Mr. Green (GB) and Mr. van Marrewijk (NL))
- (e) Witlof and Large-leaved Chicory (TWV/XXIII/5 Rev. + new working paper to be prepared by Mr. Van Ettehoven (NL))
- (f) Cucurbita maxima and Cucurbita moschata (TWV/XXII/16, TWV/24/5 + TWV/25/4 + new combined working paper to be prepared by Messrs. Brand and Breuils (FR))
- (g) Garlic (new working paper to be prepared by Mr. Brand (FR))
- (h) Beetroot (Revision) (TG/60/3 + new working paper to be prepared by Mr. Van Ettehoven (NL))
- (i) Chamomile (working paper to be prepared by Dr. Habben (DE))
- (j) Globe Artichoke (working paper to be prepared by Mr. Brand (FR))
- (k) Bunching Onion, Welsh Onion (working paper to be prepared by Mr. Green (GB)).

29. The Working Party discussed the possibility of holding a UPOV Subgroup Meeting on Broccoli in connection with the meeting of the EEC Committee Experts on Vegetables (broccoli) Trials, scheduled to be held in Battipaglia, Italy, on November 26 and 27, 1992.

30. In order to speed up the discussions during the next session of the Working Party, comments on the existing documents would be collected by the expert whose name appears beside the species concerned by the end of November 1992. A working paper would be prepared by the end of December 1992, with the exception of Chamomile (March 1993) and Bunching Onion (March 1993). Comments on the new documents should be sent to the same expert by the end of March for a combined further document at the beginning of May 1993.

31. The Working Party already noted the preliminary invitation to hold its twenty-eighth session in Edinburgh (United Kingdom).

Visits

32. In the afternoon of July 1, the Working Party visited in Erfurt the firm of Chrestensen, a vegetable and ornamental breeding and production firm comprising also garden centers, as well as the Erfurt Gemüse (ERGE) Gartenbau GmbH & Co. Kg., that organizes the production and marketing of vegetables (mainly cauliflower). In the morning of July 2, the Working Party visited the trial fields of the testing station at Dachwig, where it saw trials on vegetables, ornamentals and aromatic plants.

33. This report has been adopted by correspondence.

ANNEX I

LIST OF PARTICIPANTS AT THE TWENTY-SIXTH SESSION OF THE
TECHNICAL WORKING PARTY FOR VEGETABLES,
DACHWIG, GERMANY, JUNE 30 TO JULY 3, 1992

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[Annex II follows]

ANNEX II

LIST OF MINIMUM INFORMATION TO BE INCLUDED
IN THE UPOV CENTRAL COMPUTERIZED DATA BASE

- Latin Name
- Application Number
- Registration Number
- Country of Application for PBR
- Country of Application for National Listing
- Place of Publication (non protected, non listed varieties)
- Applicant
- Breeder
- Maintainer
- Breeder's Reference
- Approved Variety Denomination
- Proposed Variety Denomination
- Date of Application for PBR
- Date of Application for National Listing
- Date of Proposed Denomination
- Date of Approval of Denomination
- Date of Rejection of Denomination
- Date of Grant of Protection
- Date of Inclusion in National List
- Source of Information
- Remarks

[End of annex and of document]