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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL WORKING PARTY  
FOR  
VEGETABLES

Twenty-eighth Session

Edinburgh, United Kingdom, September 5 to 9, 1994

## REPORT

adopted by the Technical Working Party  
for Vegetables

Opening of the Session

1. The twenty-eighth session of the Technical Working Party for Vegetables (hereinafter referred to as "the Working Party") was held in Edinburgh, United Kingdom, from September 5 to 9, 1994. The list of participants appears in Annex I to this report.
2. Dr. R.K.M. Hay, Director of the Scottish Agricultural Science Agency, welcomed the participants. The session was opened by Dr. Elisabeth Kristóf (Hungary), Chairman of the Working Party.

Adoption of the Agenda

3. The Working Party, having agreed to discuss the presentation in Test Guidelines of disease characteristics under item 4, adopted the agenda for its twenty-eighth session, reproduced in document TWV/28/1. The Working Party decided to simultaneously hold subgroup meetings on Chamomile and on Ginger in the afternoon of September 8.

Short Report on Special Problems or Difficulties Encountered

4. The Working Party noted a paper circulated by the Nederlandse Algemene Keuringsdienst voor Groete- en Bloemzaden (NAKG), as reproduced in Annex II to this report, concerning the classification of disease characteristics. Diseases of vegetable species had been classified into obligatory diseases, diseases used for grouping purposes and other diseases. In the case of obligatory diseases which correspond to asterisked disease characteristics of UPOV, the applicant should state at the time of application whether the candidate variety is resistant. The candidate variety should then be tested and the test result should be uniform.

5. The Working Party regretted that the United States of America was not participating in its sessions and agreed that efforts should be made through the UPOV Office and ASSINSEL to seek to involve the United States of America in the activities of the Working Party.

6. The Working Party noted from a report by an expert from the Netherlands that work was underway among international registration authorities for cultivar names to prepare a new version of the International Code for the Nomenclature of Cultivated Plants. It was thought important for UPOV to be involved in this work to avoid possible conflicts between the UPOV Recommendations on Variety Denominations and the new Code. The Working Party asked the Office of UPOV to contact the acting secretariat for the preparation of the new Code and the registration authorities for cultivar names for individual plant taxa for this purpose.

Report on the Thirtieth Session of the Technical Committee and Recommendation Resulting from that Session

7. Mr. M. Tabata gave a brief report on the main items discussed during the previous session of the Technical Committee, referring for further details to the full report reproduced in document TC/30/6.

UPOV Central Computerized Data Base

8. Dr. M.-H. Thiele-Wittig reported on the most recent developments in the preparatory work of the UPOV central computerized data base for variety names. Subject to the final approval by the Consultative Committee on November 9, 1994, a first CD-ROM will be issued at the beginning of 1995. For that purpose all member States will be invited to send all variety names to Jouve, the company undertaking the production of the CD-ROM. From the middle of 1995 onwards a new CD-ROM would be distributed every second month. From 1996 onwards, two types of CD-ROM would be prepared: a basic CD-ROM, which would be distributed at the beginning of each year and contain a complete set of information on variety denominations and a supplementary CD-ROM which would be distributed every month to supplement the basic CD-ROM.

List of Species in Which Practical Technical Knowledge has been Acquired and for Which National Guidelines have been Established

9. The Working Party noted document TWO/27/13, which listed species for which practical technical examinations had been carried out by the testing authorities of the member States of UPOV and for which national test guidelines had been established.

Resistance Characteristics

10. The Working Party referred to documents TC/XX/10, TC/30/5 and TWA/23/10. There were four problems in particular to be considered, namely;

- (i) the question of terminology: "tolerance" or "resistance";
- (ii) the treatment of continuous states of expression of disease resistance;
- (iii) homogeneity in disease characteristics;
- (iv) the presentations of combined symptoms of a single pathogen, in particular in the case of Bean Common Mosaic Virus (BCMV).

11. The Working Party noted with general consensus that the terms "resistance-susceptibility" and "tolerance-sensitivity" had been clearly defined by pathologists and indicated different genetic relationships between pathogen and host plants. It agreed, however, to follow the decision of the Technical Committee, taken at its thirtieth session, to use, for the purpose of Test Guidelines, the term "resistance."

12. The Working Party observed that most of the disease resistances of vegetables showed continuous degrees of resistance and that in some cases it was difficult to apply the alternative such as "resistance absent" or "resistance present." Such a scale might only be applicable where the resistance was governed by one single gene. The Working Party generally accepted that the resistance should be evaluated by using an assessment key which had been established by phytopathologists. In this case, the test result would be given in a quantitative way; it was the task of the examiner to interpret that result for the purpose of protection. It might be possible to introduce a resistance threshold even in cases where continuous degrees of resistance were applied if there were appropriate example varieties. The Working Party also noted that the Technical Committee had now accepted the use of the states of expression "absent or very weakly expressed (1), weakly expressed (2), strongly expressed (3)" for quantitative characteristics. This might eventually be followed by the Working Party to overcome the problem. The Working Party finally agreed not to take a general decision at this stage but rather to consider case-by-case the most appropriate presentations of states of resistance expression, taking into account, in particular, the specific host-parasite relationship in question.

13. Some members of the Working Party thought that in the case of vegetable varieties, where most breeding efforts were made to improve their resistance characteristics, there were practical reasons for a variety which was uniform in respect of a particular disease resistance to be regarded as distinct, if the varieties most similar to it were not uniform in that disease resistance. However, this was contrary to the position of the TWA. The Working Party did not take a general decision but agreed to consider this problem case-by-case when discussing individual Test Guidelines.

14. As for the question of the presentation of the expression of two different symptoms caused by one single pathogen, the Working Party agreed, in the case of Bean Common Mosaic Virus (BCMV), to include the different symptoms in one characteristic.

Final Discussions on Draft Test GuidelinesTest Guidelines for Peas (Revision)

15. The Working Party noted the draft Test Guidelines for Peas (Revision) as reproduced in document TWV/28/12 and comments made by the Editorial Committee contained in document TWV/28/15. It made the following main changes in document TWV/28/12:

(i) Table of Characteristics:Characteristics

- 1 To be placed after characteristic 8
- 11 To be placed before characteristic 10
- 13, 17, 29, 50, 51, 61 To have the asterisk deleted
- 35 To read: "Varieties without leaflets only: Petiole: length (from axil to the first tendril)"
- 44 To receive example varieties to be sent by the expert from France
- 70 To have "(SMV)" replaced by "(SbmV)"

(ii) Explanations on the Table of Characteristics:Ad

- 26+27 To read: "The observations should be made over the whole plant on the main stem above the sixth node."
- 52 To insert the sentence reading: "The observations should be made on the fully developed green pod."

(iii) Annex: A table for the classification of example varieties using grouping characteristics to be added in Part III.

Test Guidelines for French Bean (Revision)

16. The Working Party noted the revised Test Guidelines for French Bean as reproduced in document TWV/28/13 and comments made by the Editorial Committee reproduced in document TWV/28/15, as well as comments sent by experts from France. It made the following main changes in document TWV/28/13:

(i) Table of Characteristics:Characteristics

- 2 To have the state "vining dwarf" deleted, after this characteristic to have a new characteristic inserted reading: "Lwarf beans only: Plant: type of dwarfness," with the states "non-vining (1)" and "vining (2)" and with the example varieties "Callide (D), Capitole (D)" for Note 1 and "Great Northern, Felspar, Spinel" for Note 2, respectively
- 21 To have all example varieties deleted

- 28 To receive drawings to be prepared by the expert from Germany and to have the wording of state 2 modified to read "acute to truncate"
- 34 To have the states 4 and 5 combined into one reading "kidney-shaped" with the example varieties "Orex (D), Palmares (D), Re Mida (D), Rubico (D)"
- 36 To read: "Seed: width in cross section"
- 37 To read: "Seed: shape of median cross section" and to be placed before characteristic 36
- 34, 36, 37 To receive drawings to be prepared by the expert from the Netherlands
- 38 To be deleted
- 44 Characteristic 44 in document TG/12/6(proj.) to be reincluded without a requirement to state the color
- 46, 47 To be replaced by the alternative reading: "Resistance to Bean Common Mosaic Virus (BCMV)" with the states "not resistant to mosaic, but resistant to blackroot (1), resistant to mosaic, but not resistant to blackroot (2), resistant to mosaic and resistant to blackroot (3)" and with example varieties to be provided by the expert from the Netherlands

(ii) Explanations on the Table of Characteristics:

Ad

- 48 To have the scheme of observation rewritten to indicate the threshold between "resistance absent" and "resistance present"
- 49 To have the scheme of observation rewritten to indicate examples of symptoms for "resistance absent" and "resistance present"

(iii) Annex: A table of characteristics of example varieties using grouping characteristics to be inserted.

Test Guidelines for Sweet Pepper (Revision)

17. The Working Party noted the revised Test Guidelines for Sweet Pepper as reproduced in document TWV/28/14, comments of the Editorial Committee contained in document TWV/28/15 and further comments in document TWV/28/4. It made the following main changes in document TWV/28/14:

(i) Conduct of Tests: The second sentence of paragraph 4 to read: "In the case of the minimum sample size indicated in Chapter III above (35 plants in the open or 18 plants in the glasshouse), the maximum number of off-types allowed would be 1 for hybrid varieties in the open or in the glasshouse, whereas for open-pollinated varieties it would be 2 in the open and 1 in the glasshouse."

(ii) Grouping of Varieties: From paragraph 2, to have item (ii) "Flower: attitude" deleted.

(iii) Table of Characteristics:Characteristics

- 1 To have the example variety "Albena" inserted for Note 1
- 3 To have the example variety "Fehér" deleted
- 4 To read: "Plant: shortened internode (in upper part) with the states "absent (California Wonder, De Cayenne, Yalorex)" and "present (Fecske, Fehér, Kalocsai 601)" and with new drawings
- 5 To read: "Varieties with shortened internodes only: Plant: number of internodes between the first flower and shortened internodes (test to be done on non-pruned plants)" with the states "none (Kalocsai 601), one to three (Fehér), more than three (Fecske)"; after this characteristic to have a new characteristic inserted reading: "Varieties without shortened internodes only: Plant: length of internode" with the states "short (Yalorex), medium, long (De Cayenne)"
- 6 To have the example variety "Wonder Top" and "Rouge long ordinaire" replaced respectively by "Lamuyo" and "Piquant d'Algérie"
- 7 To have the example varieties "Fehér" deleted and the example variety "Cubanelle Habanero" replaced by "Bastidon"
- 8 To have the example varieties "Fehér" and "Cubanelle Habanero" deleted and the spelling of the example variety "Bastidon" corrected
- 11 To be deleted
- 12 To read: "Flower: attitude of peduncle with the states "erect, non-erect"; to have the example variety "Heldor" inserted for Note 2; to receive drawings to be prepared by the expert from Hungary
- 13 To have the states "yellow" and "yellowish green" combined to read "yellowish" with the example varieties "Fehér, Pusztagold, Sweet Banana"; to have the example variety "California Wonder" inserted for the state "green"
- 15 To have the example variety "Fehér" replaced by "Kalocsai 601," the example variety "Early Calwonder" deleted and the example variety "Paradicsomalaku zöld" corrected
- 17 To have the example variety "Quadrato di Asti" inserted for Note 9
- 18 To have the example variety "Daniel" moved to Note 5 and the example variety "Top Girl (3)," "Lamuyo (7)" and "Doux italien (9)" inserted
- 19 To have the example variety "Paradiscomalakú zöld" inserted for Note 1 and "Lipari" for Note 9
- 20, 21 To be combined into one characteristic reading: "Fruit: intensity of sinuation of pericarp at basal part" with the states and example varieties "absent or very weak (Delphin, Milord), weak (Clovis, Sonar), medium (Ursus), strong (De Cayenne, Doux italien), very strong (Arabal)"
- 22 To have the states "triangular" and "quadrangular" merged into one state reading "angular" with the example varieties "Vinedale, Yalorex" and to be placed after characteristic 19

- 27 To have the example variety "Fehér" moved from Note 5 to Note 3
- 29 To be placed before characteristic 23
- 30 To have the example variety "Top Girl" inserted for Note 3
- 32 To have the example variety "Top Girl" inserted for Note 7
- 33 To read: "Placenta: size" and to have the example variety "De Cayenne" inserted for Note 3
- 34 To have the example variety "Lipari" deleted
- 35 To have the example variety "Fehér" replaced by "Doux italien" and the example variety "Lamuyo" moved from Note 5 to Note 7.
- 40 To read "Resistance to Tabamovirus" and the pathotypes to read as P<sub>0</sub>, P<sub>1</sub>, P<sub>12</sub>, P<sub>123</sub>
- 40.4 To have the example varieties "Leila or accessions of C. chacoense" replaced by "Cuby, Tasty"
- 41.2 To have the example varieties "Apolo, Latino, Vidi" deleted
- 42 To be deleted
- 43 To have example varieties "Delphin, Sucette Cayenne" and "Masai" replaced respectively by "Yolo Wonder" and "Phyo 63b, PM 217"

The example variety "Cubanelle Habanero" to be deleted throughout the Table of Characteristics.

(iv) Explanations of the Table of Characteristics:

Ad

- 19 To receive a second drawing for Note 9
- 40 To receive information on the genetics of virus pathotypes and resistant genotypes
- 41 Under "standard varieties" to have the statement that the figure 3 should be the threshold between susceptible and resistant varieties inserted.

Discussions of Working Papers on Test Guidelines

Test Guidelines for Cauliflower (Revision)

18. Discussions were based on document TWV/28/3. The Working Party made the following main changes in that document:

- (i) Methods and Observations: To have an additional paragraph added reading: "Unless otherwise indicated, all observations on the curd should be made at harvest maturity." The experts to discuss at their national offices how to handle inbred plants in hybrid varieties.



(ii) Table of Characteristics:Characteristics

- 1 To have the asterisk deleted
- 3 To have the example variety "Fanch" corrected
- 11 The expert from the Netherlands to prepare drawings and, if possible, wordings of the states otherwise the characteristic would be deleted
- 14 To have the additional example varieties "Opaal, White Fox (3), Montano (5)" inserted and the example variety "Flora Blanca" deleted
- 17 To have the asterisk deleted
- 18 To have example varieties "Calypso, Opaal (1), Celesta, Fortuna (2), Ims, Orco (3)" inserted
- 22 To have the limitations of the characteristic transferred from the beginning of the characteristic to the end
- 23 To have the first two states combined into one reading "whitish"
- 24 To be placed after characteristic 26
- 27 To have the second state "ivory" deleted and the example variety "Alpha 2" corrected
- 28 and its alternative: To be deleted
- 29.1 to 29.5 To be combined into only one characteristic with that wording, without limitations and without example varieties; growing season to be mentioned

(iii) Explanations on the Table of Characteristics:Ad

- 11, 25 The experts from the Netherlands to prepare drawings
- 28 + 29 To be deleted.

Test Guidelines for Broccoli

19. Discussions were based on documents TWV/28/2 and TWV/28/6. The Working Party made the following main changes in document TWV/28/2:

- (i) Subject of these Guidelines: The second part of the sentence to read: "including Brassica oleracea L. convar. botrytis (L.) Alef. var. italica"
- (ii) Methods and Observations: At the beginning of paragraph 2, to have the words "Unless otherwise stated" added

(iii) Table of Characteristics:Characteristics

- 1 To have the states renamed as "one stem" and "more than one stem" and to have the example variety "Ramoso Calabrese" inserted for Note 1
- 3 To have the wording of the state "prostrate" changed into "drooping" and to receive example varieties for Note 5 from the expert from France
- 4 To read: "Petiole: length," to have the states "very short" and "very long" inserted, to have the example variety "Violet Queen" moved from Note 3 to Note 1 and the example varieties "Padovano" and "Ramoso Calabrese" inserted respectively for Note 3 and Note 5 and to be placed after characteristic 14
- 5 To read: "Leaf: length (including petiole)" and the example variety "Brigadeer" corrected
- 6 To read: "Leaf: number of lobes" and to be placed after characteristic 7
- 7 To read: "Leaf: width"
- 9 To have all example varieties deleted
- 10 To have the words between the brackets in the title of the characteristic deleted
- 11 To be placed after characteristic 14
- 12 To have the additional example varieties "Violet Queen (1), Early White Sprout (3), Coaster (5), Shogun (7), Medium Late 145 (9)" inserted.
- 14 To have the example varieties "Buccaneer, Colibri (1), Coaster, Gem (3), Medium Late 145, Skiff (5)" inserted
- 15 To read: "Head: length of branching at base excluding stem"
- 17 To have the example variety "Southern Comet" deleted
- 18, 20 To have the example variety "Early White Sprouting" corrected
- 19 To have all example varieties deleted
- 25 To have the example varieties "Gem, Orion" inserted for Note 1
- 29 To be placed before characteristic 28
- 31 To be placed before characteristic 30.

(iv) Explanations on the Table of Characteristics: For Ad 15 to have drawings only for Notes 3, 5 and 7 and in each drawing the length to be indicated.

(v) Technical Questionnaire: In paragraph 4 to have "Method of maintenance and reproduction" inserted with the alternatives hybrid or open-pollinated variety.

Test Guidelines for Onion (Revision)

20. The Working Party noted the difficulty in differentiating between Onion and Shallot. Another difficulty was to be seen in the differentiation of test results caused by different means of reproduction (seed-propagated and vegetatively propagated varieties). The Working Party agreed to prepare separate Test Guidelines for Onion and for Shallot on the understanding that varieties which, after having had the main bulb removed, produced side bulbs in the second year, should be classified as Shallot. The Working Party noted further that it was planned to hold an EC experts meeting for all Allium vegetable species in May 1995, in France. If this would be the case, it would be desirable to hold a one-day subgroup meeting for Onion and Shallot to advance the preparation of Test Guidelines for these species (see paragraph 29).

21. Taking into account the above-mentioned circumstances, the Working Party made the following main changes in document TWV/18/16:

(i) Subject of these Guidelines: To have a second sentence added to read: "Varieties producing multiple bulbs should be tested according to the Test Guidelines for Shallot."

(ii) Conduct of Test: Paragraph 2 to receive remarks concerning different sowing periods to ensure the observations of certain characteristics to be formulated by the expert from the United Kingdom.

(iii) Table of Characteristics:

Characteristics

- 6 To have the additional states "very light (1)" and "very dark (9)" inserted with the example varieties "Birnförmige, Flavia" for Note 9 and to have the example varieties "Yellowstone" and "Hikeeper" inserted respectively for Note 3 and Note 7
- 2 To have the states "erect (3), erect to semi-erect (4), semi-erect (5), semi-erect to prostrate (6), prostrate (7)" (to be examined further by the Subgroup)
- 5a To receive drawings to be prepared by the expert from the United Kingdom
- 5b To read: "Leaf: false stem width (immediately under the emergence of leaf-blade)"
- 5c To be deleted
- 8 To have the asterisk deleted
- 8, 9, 10 To have the example variety "Rijnsburger 5" corrected
- 10 To have an asterisk inserted
- 10a After this characteristic to have characteristic 11 of document TG/46/3 reincluded reading: "Bulb: shape" (The subgroup to further consider the reinclusion of characteristics 3, 12, 22 and 24 of document TG/46/3)

- 15 To read: "Bulb: color of skin" with the states "white, yellow to brown, red" (the subgroup to consider the more appropriate wording of this characteristic); After this characteristic, to have a new characteristic inserted reading: "Bulb: anthocyanin coloration of skin" with the states "absent, present" and example varieties to be provided by the experts from Hungary and Spain
- 15a To have the word "basic" deleted
- 20 To be deleted
- 25 To receive methods to be prepared by the experts from France and the Netherlands
- 25a To read: "Optimal day length requirement for bulb development" with the states "short day (1)" and "long day (2)" with the example varieties "Buffalo, Senshyu Semi Globe Yellow (1)" and "Rijnsburger (2)"
- 26.1 To read: "Time of harvest maturity for short day onions (temperate regions)"; the example varieties to be examined by the Subgroup
- 26.2 To read: "Time of harvest maturity for long day onions (temperate regions)"; the example varieties to be examined by the Subgroup
- 26a To read: "Long day onions only: Sprouting of 50% of bulbs at storage" with the states "early, medium, late"; after this characteristic to have a new characteristic inserted to read "Short day onions only: Sprouting of 50% of bulbs at storage" with the states "early (Buffalo), medium (Telstar), late (Hiball)"
- 27 To have the states replaced by "less than 10% (1), intermediate (2), more than 90% (3)"

#### Test Guidelines for Chamomile

22. The Subgroup on Chamomile made the following changes to document TWV/28/8:

(i) Subject of these Guidelines: The French name to read "Chamomille."

(ii) Methods and Observations: To have Paragraph 1 deleted as Chamomile varieties are cross-fertilized. Paragraph 2 to start with "Unless otherwise indicated, ..." and to have two new paragraphs inserted reading:

"(a) All observations on the stem and on the leaf should be made at the time of beginning of flowering."

"(b) All observations on the flower head should be made at the time of full flowering."

(iii) Table of Characteristics:

#### Characteristics

1, 2, 3, 5, 6, 7, 11, 12 To have an asterisk inserted

2 to 12 To have the states with the Notes "1" and "9" deleted

- 2 After this characteristic to have two new characteristics inserted reading:

"(a) Plant: density of foliage (at flower bud stage) with the states" "loose (3), medium (5), dense (7)"

"(b) Stem: anthocyanin coloration" (at the time of beginning of flowering) with the states from "absent or very weak (1)" to "very strong (9)"

- 5 to 7 To have the term "Flower" replace by "Flower head" and the word "at" inserted before the word "level" in the brackets

- 5 To have the time indication deleted

- 6 To be placed after characteristic 7 and to have the word "without" replaced by "excluding"

- 7 To have the word "with" replaced by "including"

- 9, 10 To be brought into plural

The expert from Germany to indicate example varieties before the end of October.

(iv) Explanations on the Table of Characteristics:

Ad

- 8 To start with the sentence: "The observation is made on a representative bulk sample." and the last sentence to read: "Distillation is carried out for four hours at a speed of 3 to 4 mls per minute."

- 9 + 10 The GC conditions to read:

Apparatus: Appropriate Gas Chromatography Equipment (e.g. HRGC 5160 from Carlo Erba)

Detector: Flame Ionisation Detector (FID)

Evaluation Unit: Coated Glas Column 30 m long, 0,32 mm diameter with DB WAX, Computer with printer

Separation system: film thickness: 0,25 micrometers

Support Gas: 1ml N<sub>2</sub>/min

Split: 1:50

Temperature Program: 5 minutes at 130°C, then increase 5°C per minute up to 210°C

- - -

- 11 To have the last word on the second line (flowers) replaced by "flower heads."

Test Guidelines for Ginger

23. The Subgroup on Ginger made the following main changes in document TWV/28/9:

(i) Material Required: The expert from Japan to define the quality of rhizome to be used for testing.

(ii) Grouping of Varieties: To have Characteristic 14 under item (iii) replaced by characteristic 13.

(iii) Table of Characteristics:

Characteristics

- 2 To be deleted
- 5 To have the states renamed to read "erect, semi-erect, horizontal"
- 6 To read: "Leaf: number of leaves on first stem"
- 10 To read: "Stem: diameter"
- 11 The expert from Japan to define precisely which distance should be measured
- 13 To read: "Stem: anthocyanin coloration excluding basal part of stem with the states "absent, present"; to have an asterisk inserted
- 14 To read: "Stem: intensity of anthocyanin coloration on the basal part of stem"
- 15, 20, 30, 31, 37, 38, 39, 40, 41 To be deleted
- 42, 43 To receive methods of testing to be prepared by the expert from Japan.

Status of Test Guidelines

24. The Working Party agreed that the draft Test Guidelines for French Bean (Revision), for Peas (Revision) and for Sweet Pepper (Revision) should be sent to the Technical Committee for final adoption.

25. The Working Party agreed that the draft Test Guidelines for Broccoli, for Cauliflower (Revision) and for Chamomile should be sent to the professional organizations for comments.

26. Lack of time prevented the Working Party from discussing the Test Guidelines for Beetroot, for Cucurbita moschata, for Garlic, for Globe Artichoke, for Leaf Chicory, for Poppy, for Pumpkin, for Spinach, and for Witloof.

Future Program, Date and Place for Next Session

27. At the invitation of Mr. van Ettekoven (Netherlands), the Working Party agreed to hold its next session in Roelofarendsveen from June 26 to July 1, 1995. 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 thirty-first session of the Technical Committee and recommendations resulting from that session;
- (iii) Final Discussions of the draft Test Guidelines for:
  - (a) Broccoli
  - (b) Cauliflower (Revision)
  - (c) Chamomile
- (iv) Discussions of Working Papers on Test Guidelines for
  - (a) Spinach (Revision) (TG/55/3, TWV/28/5; comments to be sent to Dr. Habben (DE))
  - (b) Leaf Chicory (TWV/27/4 Rev.; comments to be sent to Mr. van Ettekoven (NL))
  - (c) Onion (Revision)(TG/46/3, TWV/28/16 Rev.; comments to be sent to Dr. Green (UK) by the end of 1994)
  - (d) Shallot (TG/46/3, TWV/28/20 Rev.; comments to be sent to Dr. Green (UK) by the end of 1994)
  - (e) Welsh Onion/Bunching Onion (TWV/28/17 Rev.; comments to be sent to Dr. Green (UK) by the end of 1994)
  - (f) Witlof (TWV/XXIII/5 Rev.; comments to be sent to Mr. van Marrewijk (NL))
  - (g) Pumpkin (TWV/25/4, TWV/28/19; comments to be sent to Mr. Brand (FR))
  - (h) Cucurbita moschata (new working paper to be prepared by Messrs. Brand and Breuils (FR))
  - (i) Garlic (working paper to be prepared by Mr. Brand (FR))
  - (j) Beetroot (Revision)(TG/60/3, TWV/28/11; comments to be sent to Mr. van Ettekoven (NL))
  - (k) Globe Artichoke (TWV/28/18; comments to be sent to Mr. Brand (FR))
  - (l) Ginger (TWV/28/9; new working paper to be prepared by Mr. Yuasa (JP))
  - (m) Poppy (TWV/28/10; comments to be sent to Mrs. Kristóf (HU))
  - (n) Lentil (working paper to be prepared by Mr. Boulineau (FR)).

28. In order to accelerate the preparation of Test Guidelines listed above, the Working Party agreed that comments on working papers should be sent to the experts responsible for the drafting of individual Test Guidelines mentioned in the above list, before the end of January 1995. Where necessary, the said experts should send a draft of a revised working paper to the Office of UPOV before the end of March 1995.

29. As for Test Guidelines for Onion, Shallot, Welsh Onion/Bunching Onion, all comments should be sent to Dr. Green by the end of 1994. New working papers will be discussed at the Subgroup meeting on Allium species, which, subject to the final decision of the Commission of the European Communities, would be held in connection with a meeting of the EEC Committee of Experts on Allium at the end of May (see paragraph 20).

Visits

30. In the afternoon of September 6, the Working Party visited the official seed testing station at the Scottish Agricultural Science Agency (SASA) and the trial fields of the Vegetable Section at Gogarbank Farm, where the EC Comparative trials of Brussel Sprouts were being carried out. In the evening of September 7, the Working Party visited the Royal Botanic Gardens of Edinburgh. On September 8, the Working Party visited a farm at Kettlebridge, Fife, where an iceberg lettuce crop was being harvested. This was followed by a visit to the offices of East of Scotland Growers Ltd., Cupar, and to a nearby farm where broccoli was being harvested. In the afternoon, the Working Party visited a vegetable processing plant in Dundee.

31. This report has been adopted by correspondence.

[Two annexes follow]



## ANNEX I

LIST OF PARTICIPANTS  
AT THE TWENTY-EIGHTH SESSION OF THE TECHNICAL WORKING PARTY  
FOR VEGETABLES HELD IN EDINBURGH, UNITED KINGDOM,  
FROM SEPTEMBER 5 TO 9, 1994

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[Annex II follows]

TWV/28/21

ANNEX II

**NAKG**

Inspection - Registration tests - Seed testing

To all applicants of vegetable varietiesOur reference  
en/hm/94-0728

Your reference

Date  
6 May 1994

Ladies and gentlemen,

In the meeting of 7 December 1993 of the Commissie Toelating Groenterassen the use of disease characteristics in the listing procedure has been discussed. In this meeting it was decided that diseases can be divided into 3 categories, each category with specific demands for applications for listing.

The following categories can be distinguished:

1. obligatory diseases,
2. diseases used for grouping,
3. other diseases.

For an obligatory disease the applicant has to state on the technical description whether the application is resistant/tolerant or susceptible for this disease. The application has to be tested and the test result must be uniform.

For a disease used for grouping of varieties the applicant has to state on the technical description whether the application is resistant/tolerant, susceptible or 'unknown'. If resistant/tolerant is stated, the application has to be tested. If unknown is stated the application will be included in a NAKG resistance test, the costs will be charged to the applicant. If the test result is not uniform it can still be accepted, but the application will be compared in the DUS-test with varieties in both the resistant and the susceptible group. If the application is not uniform this as such will not be included in the official description.

If for any other disease the applicant states that the application is resistant/tolerant, the application must be tested. If the test result is uniform the characteristic will be included in the official description.

Herewith we send you a list of obligatory diseases and diseases used for grouping per species.

Continuation of letter en/hm/94-0728

After application you will receive a disease declaration form for every obligatory disease and also for diseases used for grouping where you state resistant/tolerant or unknown. If unknown, please state unknown on the disease declaration form with which you agree that NAKG tests the application for this disease. If necessary we will ask you for a supplementary sample. After the resistance test you will receive the results in writing.

The above mentioned procedure will become effective on 1 July 1994. We will adapt the technical descriptions if necessary. For every disease it will be indicated whether it is an obligatory disease or a disease for grouping. These ammended technical descriptions will be sent to you in due course.

We trust herewith to have informed you sufficiently.

Yours sincerely,  
General Netherlands Inspection Service  
for Vegetable and Flower Seeds



C. van Ettehoven  
Head Registration & Documentation Section

Annex

SURVEY DISEASES PER CROP

O = obligatory disease

G = disease used for grouping

Pepper	O	Tobacco mosaic Virus strains 0, 1, 1.2 and 1.2.3
	G	Phytophthora capsici strains 0, 1 and 1.2
	G	Potato Y Virus
Melon	G	Fusarium oxysporum f.sp. melonis races 0, 1, 2 and 1.2
	G	Sphaerotheca fuliginea
Cucumber	G	Cladosporium cucumerinum
	G	Corynespora cassicola
	G	Cucumber Mosaic Virus
	G	Sphaerotheca fuliginea
Gherkin	G	Cladosporium cucumerinum
	G	Corynespora cassicola
	G	Cucumber Mosaic Virus
	G	Sphaerotheca fuliginea
Lettuce	O	Bremia lactucae races 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15 and 16
	G	Lettuce Mosaic Virus
Tomato	O	Tomato Mosaic Virus strains 0, 1 and 2
	G	Cladosporium fulvum fysio's A, B, C, D and E
	O	Verticillium
	G	Pyrenochaeta lycopersici
	O	Fusarium oxysporum race 0 and 1
	G	Meloidogyne incognita
G	Chimaeren	
G	Fusarium oxysporum f.sp. radicis-lycopersici	
Dwarf bean	G	Bean Common Mosaic Virus
	O	Colletotrichum lindemuthianum race lambda
	G	Pseudomonas phaseolicola
Climbing bean	G	Bean Common Mosaic Virus
	O	Colletotrichum lindemuthianum race lambda
	G	Pseudomonas phaseolicola
Pea	G	Fusarium oxysporum f.sp. pisi race 1
Spinach	O	Peronospora farinosa f.sp. spinaciae races 1, 2, 3 and 4

NAKG/vn/vn/240394

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