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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL WORKING PARTY
FOR
AGRICULTURAL CROPS

Twelfth Session

Tystofte, Skaelskør, Denmark, June 8 to 10, 1983

REPORT

adopted by the Technical Working Party for Agricultural CropsOpening of the Session

1. The twelfth session of the Technical Working Party for Agricultural Crops (hereinafter referred as "the Working Party") was held in Tystofte, Skaelskør, Denmark, from June 8 to 10, 1983. The list of participants appears in Annex I to this report. Meetings of Subgroups on several species took place at the same place on June 7, 1983.

2. Mr. F. Espenhain, Head of the Plantenyhedsnaevnet, welcomed the participants to his office at the State Experimental Station at Tystofte, Denmark. The session took place in Menstrup, near Tystofte. The session was opened by Dr. G. Fuchs, Chairman of the Working Party.

Adoption of the Agenda

3. The Working Party unanimously adopted the agenda of the twelfth session as reproduced in document TWA/XII/1 after having noted that the discussions under "Any Other Business" were intended to cover the questions of homogeneity for true seed potato varieties, the bilateral electrophoresis test and the exchange of lists of varieties under test.

Adoption of the Report on the Eleventh Session

4. The Working Party unanimously adopted the report on its eleventh session as reproduced in document TWA/XI/14, after having agreed to change the first sentence of paragraph 9 to read as follows: "In addition, experts from the Netherlands, the United Kingdom and the Federal Republic of Germany had started revising the Test Guidelines for Turnip," after having changed, in paragraph 10, the words "1 kg in each year of testing" for Technical Note 2 by "1 kg for each year of testing" and after having changed the last two sentences of paragraph 41 to read: "With a patent of the above type, a kind of protection could be obtained alongside plant variety protection. The subject will be discussed during the UPOV symposium on "Genetic Engineering and Plant Breeding" to be held in Geneva on October 13, 1982."

Report on the Eighteenth Session of the Technical Committee

5. The Chairman gave a short account of the last session of the Technical Committee, restricting himself to the main subjects discussed. The full report of the session is reproduced in document TC/XVIII/13 Prov. In connection with the discussions of the items reported from the last session of the Technical Committee, the Working Party stressed that in paragraph 39 one additional criterion should have been added stating that the aspect of stability might also have to be taken into account. With respect to the report given in paragraph 65, the Working Party took the view that if a good example variety was no longer available in the trade that would not necessarily mean that it had to be replaced by another variety, but that--depending on the species--the Office could itself maintain that variety. At the request of the Working Party, Dr. M.-H. Thiele-Wittig also gave a short report on the first session of the Technical Working Party on Automation and Computer Programs. The full report of that session is reproduced in document TWC/I/4 Prov.

Test Guidelines for Soya Bean

6. The Working Party noted the comments received on document TG/80/1(proj.) and made the following main changes to that document:

- (i) Changes made in the Technical Notes:

Technical Note

- 1 Having noted the decision of the Technical Committee as reproduced in document TC/XVIII/13 Prov., paragraphs 50 and 51, the Working Party decided to amend paragraph 5 of the Technical Notes according to the decision of the Technical Committee, and also to delete the third sentence of paragraph 1. In addition, it incorporated paragraph 2 in paragraph 1 to read as follows: "As a minimum, the quantity of seed to be supplied by the applicant should be either 1 kg each year of testing and 5 kg for storage in the reference collection or 7 kg in one single seed submission.
- 8 to have the word "similar" deleted
- 13 to have the information placed in the Table of Characteristics together with characteristic 15

The French experts proposed including a sentence that would give a country the possibility of asking for individual plants where its testing requirements so provided. This was, however, not approved by the Working Party.

- (ii) Changes made in the Table of Characteristics:

Characteristic

- 2 to have the example variety "Swift" replaced by "Will"; the experts from France to complete the information given in the Explanations and Methods with respect to the spectrum of the illumination and to check, if possible, the example variety for the semi-determinate state; the Working Party wished to bring the attention of the Technical Committee to the problems faced with respect to that characteristic where the variety expression differed according to the various latitudes at which the variety was grown
- 3 to have the drawings deleted as they would be misleading, and to have the additional example variety "Maple Presto (1)"
- 4 to have the following example varieties attributed to the various states of expression: "Maple Presto (1), Altona (2), Swift, Evans (3), Kingsoy (4), Amsoy 71 (5)"
- 10 to have the additional example variety "Amsoy 71 (3)" and to have the example variety "Wells" deleted
- 13 to read: "Seed: color of testa (excluding hilum)" with the additional example varieties "Ogden (2), Verge (3), PNR 702 (4)"

- 16 to have the asterisk deleted; the experts from France to prepare a new list of example varieties for the states indicated in the Table of Characteristics. The Working Party was faced with a problem regarding the above characteristic, namely that, if the whole range of varieties existing worldwide were included, all European varieties would cover only a small part of that range. It finally found a solution by providing that, on the national level, a further subdivision of this characteristic could be made by stating the earliness compared with the indicated example varieties in terms of days earlier or later than that example variety. In that connection it was said that, on the national level, each State could prepare a different description which would be valid only for the country concerned, while for an exchange of variety descriptions on an international basis the UPOV Test Guidelines would of course have to be followed. The Working Party thought that the solution found for this problem should be reported to the Technical Committee in order that its views on the question might be obtained.

(iii) The Working Party agreed to present the document after the incorporation of the above changes to the Editorial Committee and the Technical Committee for final adoption and publication.

Test Guidelines for Sunflower

7. The Working Party noted the compilation of the different comments received on document TG/81/1(proj.) prepared by the experts from France and containing mainly comments from different members of the Sunflower Crop Advisory Committee of the International Sunflower Association. It finally made the following main changes to document TG/81/1(proj.):

(i) Changes made in the Technical Notes:

Technical Notes

- 1 to be changed in a manner similar to that already mentioned for Soya Bean, with the last sentence reading: "Recommended minimum quantities of seed are:
- "(i) hereditary components: either 2,500 viable grains in each year of testing and 1 kg of viable grains for storing in the reference collection, or 5,000 viable grains and 1 kg viable grains in one single seed submission.
- "(ii) Commercial hybrids and open-pollinated varieties: either 1 kg of seed of a quality conforming to the seed certification and marketing standards (purity, germination capacity, moisture content) in the country concerned in each year of testing, plus 3 kg of viable grains for storing in the reference collection, or 5 kg of seed in one single seed submission.
- 2 to be worded in a manner comparable to that of paragraph 4 of the Technical Notes for Soya Bean
- 3 to be amended as decided by the Technical Committee in the same way as for Soya Bean
- 10 to have the first sentence changed to read thus: "Unless otherwise indicated, all observations on the leaf should be made on a fully developed leaf, after bud stage but before flowering."

(ii) Changes made in the Table of Characteristics:

Characteristics

- 1 to 8 to be placed at the end of the Table of Characteristics
- 6 to have "Airelle" replaced by "RHA 274"
- 9 to have an addition reading: "(at cotyledon stage)"

- 16 to have the word "keenness" replaced by "fineness"
- 22 to read: "Leaf: angle between lower part of petiole and stem" with the states "very small, small, medium, large, very large", to have the explanations amended and to have example varieties indicated by France
- 24 to be replaced by the following characteristic: "Stem: number of leaves on main stem" with the states "low, medium, high"; the experts from Spain to indicate example varieties
- 31 a new characteristic to be inserted before this characteristic, reading thus: "Head: bracts on the back" with the states "absent or very few, few, medium, many, very many"
- 40 to 43 to be deleted

(iii) In the Technical Questionnaire paragraph 5.3 and 5.4 would be replaced by the following wording: "5.3 Time of flowering (quote mean date of flowering of variety as well as of two well-known comparable varieties); 5.4 Plant: natural height at maturity (quote height of variety as well as of two well-known comparable varieties)"; in paragraph 7.1 the breeder would be asked to indicate the races of the resistances mentioned.

(iv) The Working Party agreed to present the document, after the incorporation of the above changes, to the Editorial Committee and the Technical Committee for final adoption and publication. The Working Party regretted that, of the many proposals for changes made by the International Sunflower Association, only very few could be taken into account. This was basically because the analysis of this organization was made from the gene bank point of view which does not correspond directly with that made in the framework of UPOV.

Test Guidelines for Cotton

8. Dr. M.-H. Thiele-Wittig reported on the result of the discussions in the Subgroup which had met on June 7, 1983. The Working Party finally agreed on the following changes to document TWA/XII/8 proposed by the Subgroup:

- (i) Changes made in the Technical Notes:

Technical Notes

- 1, 2, 5 to receive the corresponding changes as mentioned in the Test Guidelines for Soya Bean and for Sunflower
- 6 to have the figure 10 replaced by 40
- 7 to have the characteristic mentioned under (ii) replaced by "Flower: color of petals (characteristic 10)"
- 10 after this paragraph a new paragraph to be included reading: "All characteristics on the leaf should be recorded on fully developed leaves."

- (ii) Changes made in the Table of Characteristics:

Characteristics

- 1, 7, 9, 10, 13, 16, 25 to receive an asterisk
- 1 to have the states "cylindrical, conical, irregular"
- 4 after this characteristic two new characteristics to be inserted reading: "Plant: length of longest vegetative branch" with the states "short, medium, long" and "Plant: length of first fruiting branch" with the states "very short, short, medium, long, very long"

- 7 to be placed before characteristic 5 and to read: "Leaf: shape" with the states "palmate ... (the experts from the Netherlands to indicate the right wording) (Acala SJ-1), palmate (Okra), pinnate (Super Okra)"
- 8 to be separated into two characteristics, the first with an asterisk and to read: "Leaf: gossypol glands" with the states "absent, present" and "Leaf: number of gossypol glands" with the states "few, medium, many"
- 10 to have the example varieties "Acala SJ-1 (1), Pima (2)"
- 12 to have the example variety "Albar 637" replaced by "Pima"
- 13 to have the first state read "rounded"
- 14 to be deleted
- 15 to have the word "texture" replaced by "relief" and to have both the states for Note 1 and 9 and the example variety "G. barbadense" deleted
- 16 to have the example varieties "Deltapine, Stoneville 213" deleted
- 17 to read: "Boll: prominence of tip" with the states "weak, medium, strong"
- 18 to read: "Bracteole: length/width ratio"
- 19 to read: "Bracteole: indentation" with the states "shallow, medium, deep"
- 21 to be placed after characteristic 29
- 22 to be deleted
- 23 to have the words "absent or" of the state with Note 1 deleted
- 26 to have an addition in brackets reading: "percentage of long hairs"
- 27 to have the word "tenacity" replaced by "strength" and to have the example varieties "153 F. (3), Stroman 254 (7)"
- 28 to have a new characteristic inserted after this characteristic reading: "Fibre: fineness" with the states "fine, medium, coarse"
- 29, 30 to be deleted
- 25 to 28 the experts from South Africa to prepare a proposal for standard methods on the basis of information received from the experts from Spain and Israel

(iii) In the Technical Questionnaire, paragraphs 5.2, 5.3, 5.6 and 5.8 were deleted.

(iv) The experts from South Africa will try to specify, for several of the characteristics, methods by the end of July and example varieties by the end of August. Thereafter the document will be sent to the professional organizations for comments. With respect to the characteristics on disease resistance which were deleted, the Working Party had a long discussion on the question of homogeneity and the fact that often no clear-cut distinction was possible between resistance and susceptibility. Furthermore there was the problem of the maintenance of the different pathotypes. The state of knowledge at present would therefore not be sufficient to include the resistance characteristics, even if the method were already standardized.

Test Guidelines for Groundnut

9. Dr. M.-H. Thiele-Wittig reported on the findings of the Subgroup on Groundnuts which had met on June 7, 1983, to discuss the establishment of Test Guidelines for Groundnut on the basis of document TWA/XII/9, which had been prepared by the Office of UPOV on the basis of a working paper drawn up by the experts from South Africa and also additional comments from South Africa. Because of the lack of additional comments received, the Subgroup felt unable to complete the document and therefore asked the experts from Israel to try to apply the characteristics in the above-mentioned document to the collection available in Israel and at the same time to check the information from other countries, especially South Africa and the United States of America. The result of those trials should then be circulated to the other members of the Working Party by the end of December. In the document itself the Subgroup proposed only to make in paragraphs 1, 2 and 5 of the Technical Notes the appropriate changes according to the decision of the Technical Committee, and to complete the information in paragraph 6 by the figure of 50 plants. The Working Party noted this information with approval.

Test Guidelines for Rice

10. Dr. M.-H. Thiele-Wittig reported on the findings of the Subgroup on Rice which had met on June 7, 1983, to discuss the establishment of Test Guidelines for Rice. Unfortunately the Spanish experts had not received sufficient information to draw up a new working paper on Test Guidelines for Rice. They were especially missing comments from Italy and Japan, without which they considered themselves unable to establish a useful document for general use. The Subgroup therefore recommended that the Office of UPOV be asked to prepare a new working paper on the basis of the information contained in document TWA/XI/14, paragraph 21, which was completed by the decision to request, in the Technical Notes, 5 kg of seed in one or two seed submissions, 1,000 plants in two or three replications, 100 panicles and also the following grouping characteristics: time of heading; stem: length including panicles; decorticated grain: length. The same characteristics should also be included in the Technical Questionnaire under paragraph 5. Furthermore the EUCARPIA Code as included in the Test Guidelines for Wheat should also form an annex to the working paper on Test Guidelines for Rice. The new working paper should be circulated to the members of the Working Party with the experts from Japan and Italy receiving a special invitation to prepare comments on the document. The Working Party noted this information with approval.

Test Guidelines for Safflower

11. Dr. M.-H. Thiele-Wittig reported on the result of the discussions of the Subgroup on Safflower which had met on June 7, 1983, to discuss the establishment of Test Guidelines for Safflower. Unfortunately, for Safflower the situation was comparable to that of Rice. The experts from Spain had not received any comments from the other member States. The Subgroup therefore proposed that the discussions on the establishment of this document be postponed for about two years until further information was received. In the meantime, they would especially like to receive comments from Israel and the United States of America, without which they felt the drafting of a document would be of little value.

Test Guidelines for Swede

12. The Working Party continued its discussion on Test Guidelines for Swede on the basis of document TWA/XI/4 and made the following main changes in that document:

(i) In the Technical Notes, changes corresponding to those made in the Technical Notes of other Test Guidelines would be required.

(ii) Changes made in the Table of Characteristics:

Characteristics

- 17, 20, 21, 25, 26 to 37 to be deleted
- 7, 16, 18, 19, 22 to have the asterisk deleted
- 13, 14 to receive an asterisk
- 2 to have the words "pale green" replace by "light green"
- 3 the first and last states to read: "absent or very weak, very strong"
- 7 to have the word "total" inserted after the colon
- 12 the experts from the United Kingdom to give the position
- 13 to read: "Root: anthocyanin coloration of skin (above soil level)"
- 14 to read: "Root: intensity of anthocyanin coloration (as for 13)" and to have the words "absent or" deleted from the first state
- 15 to have the word "ground" replaced by "soil level"
- 16 to have the Notes numbered from 1 to 5
- 23 to have the states "white (1), yellow (2)"
- 24 to read: "Root: intensity of yellow color of flesh"

(iii) In the Technical Questionnaire, the characteristics 4, 13, 14 and 23 would be included under paragraph 5.

(iv) The Working Party agreed to present the document to the professional organizations at the same time as to the Technical Working Party for Vegetables after the incorporation of the above-mentioned changes and of example varieties to be given by the experts from the United Kingdom by the end of October.

Test Guidelines for Potato

13. The Working Party discussed revised Test Guidelines for Potato on the basis of document TWA/XII/6 and made the following main changes in that document.

- (i) Changes made in the Table of Characteristics:

Characteristics

- 35, 39, 45, 46, 84, 85, 95, 96 to be deleted
- 10 to have the states "spherical (1), ovoid (2), conical (3), broad cylindrical (4), narrow cylindrical (5)"
- 17 to have the Notes "1, 2, 3"
- 20 to have the states "small (Ehuá), medium (Apollo), large (Mentor)"
- 21 to have the states "weak (Resonant), medium (Gloria), strong (Tertus)"
- 23 to be deleted
- 24 to have the states "short (Marlene), medium (Nicola), long (Stella)"
- 27 to have the Notes "1, 2, 3"
- 49 to read: "Leaflet: width (in relation to length)"

- 63 to read: "Terminal leaflet: presence of secondary leaflets"
64 ro read: "Lateral leaflet: presence of secondary leaflets"
65 to read: "Lateral leaflet: size of secondary leaflets"
92 to delete the asterisk

(ii) The Working Party agreed that the experts from the Netherlands would prepare an amended draft in which for several characteristics the number of states would be further reduced and some further example varieties replaced by others, e.g. "Carla" by "Famosa" as Carla would no longer be protected and no longer be given in the national lists of the member States.

(iii) With respect to the procedure for the Test Guidelines for Potato, the Working Party agreed that at the beginning of August the experts from the Netherlands would send a new working paper to the Office of UPOV which would translate it and circulate it to the Working Party at the beginning of September. It would be requested to present comments to the Netherlands by the end of the year, which would then be combined and circulated to the Working Party in January 1984 by the Office of UPOV .

14. The replacing of some example varieties by others gave rise to a general discussion on the criteria which would make it necessary to change an example variety and replace it by another. It was finally agreed that, where a very good example variety existed in the Table of Characteristics, the only criterion would be its availability. If it were difficult to find another variety exactly replacing it, the authority should envisage, depending on the species concerned, maintaining the variety if no breeder or maintainer were willing to do so as it was no more on a national list.

15. During the discussions on the deletion or inclusion of further characteristics in the Table of Characteristics for Test Guidelines for Potato, the Working Party started a general discussion on the relevant criteria. At the end of the discussions, the majority of the members of the Working Party agreed that if a characteristic fulfilled all criteria for the testing of distinctness, homogeneity and stability and if it was used for acceptance of the variety for plant variety protection in at least one member State, it should be included in the Table of Characteristics of a given Test Guidelines document at the time of its preparation or revision. Some member States expressed their view however that this criterion was too broad and might lead to an inflation of characteristics in the Test Guidelines. They wondered whether it could be further limited by saying that all characteristics should be included if used in at least two member States or if resulting in a very clear differentiation, which was more or less the case for qualitative characteristics, and if easily observed. The inclusion of too many characteristics in the Table of Characteristics might also demand too large a burden of testing work for the Offices and impose on the breeder homogeneity for too large a number of characteristics. The Working Party therefore finally agreed as a compromise that all characteristics fulfilling all other criteria would be included in the Table of Characteristics if they were used in at least one member State after having been thoroughly scrutinized. The Working Party asked the Technical Committee to give its views on these criteria and on whether they could be applied in common within all Technical Working Parties.

Test Guidelines for Turnip

16. The Working Party based its discussion on revised Test Guidelines for Turnip on document TWA/XII/5 prepared by the Subgroup on Turnip during its meeting at Wageningen (Netherlands) on April 19 and 20, 1983, and on comments prepared by the Technical Working Party for Vegetables during its last session held at Zaragoza, Spain, from May 30 to June 1, 1983 (see Annex II to this report). The discussions on that document immediately led to the question whether one single document should be prepared to include turnip rape also or whether two separate Test Guidelines documents should be prepared, one for turnip and the other for turnip rape. The biggest problem was that no clear borderline existed between turnip and turnip rape and therefore not all varieties could be clearly attributed to one or the other of the two groups. Possible characteristics allowing the grouping which were mentioned were the size

of the root, the formation of flowers in the year of sowing, the cold requirement. The Working Party finally decided to ask the Subgroup to make a proposal for separation, most probably with the help of the root size, and to state in the Table of Characteristics for each characteristic for which group its observation would be recommended. Because of this general decision the Working Party did not enter into detailed discussions on the individual characteristics either in the document or in the comments from the Technical Working Party for Vegetables.

Test Guidelines for Broad Bean and Field Bean

17. The Working Party noted documents TWV/XVI/6 and TWV/XVI/8 together with the result of the discussions of the Technical Working Party for Vegetables held at Zaragoza, Spain, from May 30 to June 1, 1983. Having discussed all comments made by the Technical Working Party for Vegetables, it was able to agree on most of them as mentioned in paragraph 8 of document TWV/XVI/14 Prov. with the exception of the following:

(i) In the Technical Notes, paragraph 1 should be aligned with the wording used in other Test Guidelines of the Technical Working Party for Agricultural Crops and an addition in brackets placed after the figure 1,000 g, reading "at least 1,000 grains."

(ii) Changes proposed in the Table of Characteristics:

Characteristics

- 11 to have the example variety "Talo" checked by the experts from the Netherlands and France by the end of August
- 23 to have the asterisk deleted since for field beans, this characteristic would only increase the workload without improving discrimination
- 30 to keep the state "brown(ish)"; the experts from the Netherlands to investigate this state of the characteristic; the experts from the Federal Republic of Germany reported that most of their varieties were already brownish immediately after harvesting and not only at a later stage
- 33 to be given an addition in brackets reading "on first fully developed pods"

(iii) With respect to the question of possible differences in homogeneity between broad beans and field beans, the Working Party--after a lengthy discussion--agreed with the view expressed by the Technical Working Party for Vegetables that every effort had to be made to avoid the possibility of a variety which was refused protection as a broad bean because of lack of homogeneity being accepted and granted rights as a field bean. The same homogeneity requirements should be fulfilled irrespective of whether a variety was a broad bean or a field bean. Special cases, as for example the color of the hilum (characteristic 31), should be borne in mind, however, since in some countries different colors in one and the same variety would be acceptable if their percentage remained stable. The Working Party stressed that a uniform view should be sought in respect of homogeneity.

Test Guidelines for Cocksfoot, for Meadow Fescue and Tall Fescue and for Timothy

18. The Working Party noted that two weeks earlier a Subgroup on Cocksfoot, Meadow Fescue, Tall Fescue and Timothy had met in France to discuss the revision of the Test Guidelines for those species. The Subgroup had finished its work with no questions left open. It therefore proposed that the Working Party agree to the drafts and present them to the professional organizations for comments. The Working Party, without having had the possibility to see the results of the discussions, agreed that the Chairman would send these drafts via the Office of UPOV to the other members of the Working Party and obtain approval for their presentation to the professional organizations by

correspondence. If no substantive comments were made to the Chairman by the end of October, the drafts could be distributed directly to the professional organizations.

19. In connection with the report on the Subgroup's meeting, the Working Party agreed that all member States should always receive the documents for Subgroup meetings, even if they did not participate in the meetings themselves.

Data Recording and Interpretation in Grasses

20. The Chairman reported on the discussions on data recording and interpretation in grasses held during the above-mentioned meeting of the Subgroup on Cocksfoot, Meadow Fescue, Tall Fescue and Timothy. During the preceding year the Subgroup had discussed in another meeting the test procedure, the randomization of tests, the standardization of observations in order to exclude the year's influence, the different methods used for non-parametric statistical analysis, the correlation between single-space plants and row-plots, the comparison of different statistical tests, the homogeneity criteria for cross-fertilized crops which are measured and the observation of homogeneity in row-plots. Following the establishment of the new Technical Working Party on Automation and Computer Programs, the Subgroup did not continue the discussions this year, leaving them to the other Technical Working Party. However, it mentioned its concern for close contact between the statisticians and the experts in variety testing to ensure results applicable by all the parties concerned.

Stabilization of Latin Names of Species by ISTA

21. The Working Party noted the information contained in document TWA/XII/4 Rev., Annex III. It showed that there were no problems for agricultural crops as the main aim of ISTA had so far been the stabilization of species of seed-propagated varieties. The Working Party was therefore satisfied with the present situation.

List of Standard Reference Books and Documents

22. The Working Party noted the information given in document TWA/XII/4 Rev., Annex IV, and invited the countries which had not yet answered the circular distributed by the Office of UPOV to do so and give the required information by the end of August.

Tolerances for Inbred Plants

23. The Working Party noted the information given in document TWA/XII/4 Rev., Annex I. Having discussed the question in further detail, a deviation from the General Introduction to Test Guidelines (TG/1/2, paragraph 33), which recommended that "..... a tolerance has also to be allowed for inbred plants", became apparent and none of the member States represented at the session found it necessary to allow this additional tolerance for inbred plants. The Working Party therefore felt unable to follow the request made by the Technical Committee at its last session and to lay down maximum tolerances for inbred plants for the different Test Guidelines adopted.

Reproducibility of Characteristics

24. Unfortunately, lack of time did not permit discussion of this subject.

Harmonized Methods for the Testing of Diseases, Common Nomenclature for Different Diseases and their Races

25. Miss Jutta Rasmussen (Denmark) reported on the last meeting of the Subgroup on diseases in cereals, which had met only once. During that meeting, the experts had discussed the possibility of preparing standardized methods for the testing for mildew and rust, of harmonizing the nomenclature and of

finding ways to improve cooperation. First working papers on harmonized methods for the testing of rust and mildew will be checked at home as to their applicability. With respect to the nomenclature, it became apparent that harmonization as regards the host or the pathotype can only be achieved to a certain extent. Cooperation--whether bilateral or centralized--will pose severe problems especially because of the countries' fear of transmitting pathotypes from one country to another where they have not yet occurred. A further meeting of the Subgroup is planned for next year, possibly in the United Kingdom. In preparation for that meeting, the experts will test the preliminary methods worked out and will study the details of nomenclature used in the different member States and the possibility of including further diseases. A questionnaire has been planned for this last mentioned purpose. The maintenance of pathotypes will also create a problem insofar as where plant breeders' rights are granted on the basis of a resistance characteristic, the pathotype would have to be stored for at least as long as the variety was protected.

Intergeneric Varieties

26. Unfortunately, due to lack of time this item could not be discussed during the present session.

Future Program, Date and Place of Next Session

27. At the invitation of the experts from Sweden, the Working Party agreed to hold its thirteenth session at Lund, Sweden, from June 27 to 29, 1984. The meeting would end on June 29 at 1 p.m. Depending on the preparation of further working papers, various Subgroups would already meet on June 26, 1984, at the same place. It is planned to discuss the following items at that session of the Working Party.

- (i) Final discussion of draft Test Guidelines for:
 - Cocksfoot (revision)
 - Cotton
 - Meadow Fescue and Tall Fescue (revision)
 - Swede
 - Timothy (revision).
- (ii) Discussion of working papers on Test Guidelines for:
 - Groundnut (IL to prepare comments)
 - Rice (revision) (UPOV to prepare a new working paper, comments requested from JP and IT)
 - Potato (revision) (NL to prepare a new working paper)
 - Turnip (revision) (the Subgroup to prepare a new working paper)
 - Broad Bean (revision) (depending on the results of the Technical Working Party for Vegetables it might already have been sent to the professional organizations and therefore to be discussed under (i))
 - Red Clover (the Subgroup to prepare a new working paper)
 - White Clover (the Subgroup to prepare a new working paper)
 - Bent (to be checked at home whether there is a need for revision)
 - Kentucky Bluegrass (to be checked at home whether there is a need for revision)
- (iii) Reproducibility of Characteristics (document TWA/XII/3)
- (iv) Harmonized Methods for the Testing of Diseases, Common Nomenclature for Different Diseases and their Races (report by the Subgroup on Diseases)
- (v) Intergeneric Varieties (document TWA/XII/7)
- (vi) Electrophoresis Tests on Wheat (report on the outcome of the tests on electrophoresis)

Status of Test Guidelines

28. The Working Party agreed that the draft Test Guidelines for Soya Bean and for Sunflower were to be sent to the Editorial Committee and the Technical Committee for final adoption.

29. The Working Party agreed that the draft Test Guidelines for Cotton and for Swede should be sent to the professional organizations for comments. At the same time the draft Test Guidelines for Swede should also be sent to the Technical Working Party for Vegetables.

30. The Working Party agreed that the drafts for revised Test Guidelines for Cocksfoot, for Meadow Fescue and Tall Fescue and for Timothy prepared by the Subgroup should be circulated to the members of the Technical Working Party and, if no serious comments were received by the Chairman, they should be sent to the professional organizations for comments.

31. The Working Party agreed that the Test Guidelines for Groundnut, for Rice, for Potato, and for Turnip required further discussion during the coming session of the Working Party. Work on the drafting of Test Guidelines for Safflower was postponed for two years.

32. The draft for revised Test Guidelines for Broad Bean and Field Bean would, depending on the decision of the Technical Working Party for Vegetables, either be sent to the professional organizations for comments or dealt with during the coming session of the Technical Working Party for Vegetables.

Any Other BusinessElectrophoresis Test on Wheat

33. The Chairman and Mr. Seaton (United Kingdom) reported on the plans for a bilateral test on different methods of electrophoresis to be made by the United Kingdom and the Federal Republic of Germany, but in which further countries were free to participate. A survey at the meeting showed that Spain, the Netherlands, France and possibly also Sweden would like to participate in this test. Six wheat varieties would be selected and 30 ears of each of these six varieties would be distributed by the United Kingdom to each of the participating countries which would then test them in the field with respect to a selected number of characteristics from the UPOV Test Guidelines as well as with different electrophoresis methods. It was planned to start the test with the sowing of earrows in autumn 1983. Ears were to be chosen to enable the comparison of the results according to the UPOV Test Guidelines with those from electrophoresis on seeds or plants from the same ear in each case.

Homogeneity in True Seed Potato Varieties

34. The Chairman reported on correspondence he had had with Mr. Whitmore (New Zealand) on the question of homogeneity in true seed potato varieties. During its last session, the Technical Committee had agreed to a proposal by the Technical Working Party for Ornamental Plants, reproduced in paragraph 9 of document TC/XVIII/6 Add. "..... that the same homogeneity requirements had to be applied to both groups of varieties (vegetatively propagated varieties and varieties of the same species produced by seed)." The expert from New Zealand considered this to be an unrealistic demand and proposed instead that the variety should always be compared with respect to homogeneity with comparable varieties, meaning varieties propagated in the same manner. For true seed potato varieties this would mean that they would have to be handled as cross-fertilized crops. The experts from New Zealand thought that the risk of another breeder taking clones from a true seed propagated potato variety and propagating them as another variety would have to be borne by the breeder alone. The Working Party thought that the question of the authority granting plant breeders' rights having to protect the breeder against others taking clones for the creation of new varieties by vegetative means would have to be solved by the Technical Committee, and therefore asked the Technical Committee to give its views on this question.

Visits

35. In the afternoon of the second day of the meeting, the Working Party visited the trial fields of the State Experimental Station at Tystofte.

36. This report was adopted unanimously by the Working Party during its thirteenth session held from June 27 to 29, 1984.

[Two Annexes follow]

LIST OF PARTICIPANTS
AT THE TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS
TYSTOFTE, SKAELSKØR, JUNE 8 TO 10, 1983

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[Annex II follows]

Extract from the Draft Report on the Sixteenth Session
of the Technical Working Party for Vegetables (TWV/XVI/14 Prov.)

Test Guidelines for Turnip (including Turnip Rape)

9. The Working Party started discussing the preparation of revised Test Guidelines for Turnip on the basis of a draft prepared by the Subgroup on Turnip during its meetings at Wageningen (Netherlands) on April 19 and 20, 1983 (document TWA/XII/5), and proposed the following main changes in that document to the Technical Working Party for Agricultural Crops.

(i) To have the words "sensu lato" deleted from the cover page.

(ii) Changes proposed in the Technical Notes:

Technical Notes

1 to 3 The Working Party wondered why paragraphs 1 to 3 of the Technical Notes were worded in a manner different from the wording used by itself. It would therefore propose to the Technical Committee that it try to achieve harmonized wording for the Technical Notes in the Test Guidelines established by different Technical Working Parties.

5(i) to be so presented as to convey that the trials concerned should only be made if the testing office was interested in them

6 to have a further inclusion with a key which would enable the separation of turnip from turnip rape.

(iii) Changes proposed in the Table of Characteristics:

Characteristics

1 to have the states "up to and including 2%, higher than 2%"

2 to have the states "up to and including 30umol, higher than 30umol"

9 to read: "Foliage: color"

18 to be split into two characteristics, the first with an asterisk and the states "absent, present," the second for intensity with the states "very weak, weak, medium, strong, very strong"; after this characteristic two further characteristics to be inserted, the first reading: "Leaf: hair vesicles", with the states "absent (Appin, Frisia), present" and another characteristic reading: "Leaf: number of hair vesicles" with the states "few (Teutonen-gold), medium (De Milan à forcer à collet rose, De Croissy), many (Blanc dur d'hiver, Hampshire Hardy Green Round)"

27 to read: "Root: ratio length/width" with the states "very small, small, medium, large, very large" and to be placed after characteristic 29

30 to read: "Root: position of widest point" with the states "lower third (1), central third (2), upper third (3)"

32 to have the states "indented (1), truncate (2), rounded (3) (the state "rectangular" was considered to be the same as truncate)

33 to have the states "indented (1), truncate (2), rounded (3), pointed (4)"

39, 40, 42, 44 to have the words "stem" or "peduncle" replaced by "pedicel"

40 the Working Party doubted the reliability of this characteristic

45 to be observed on the ripe seeds immediately after harvesting

(iii) The following additional example varieties were proposed:

<u>Characteristic</u>		
9	Arca, Jaune Tankard Appin	1 9
10	Taronda	1
11	De Croissy Civasto Barkant	4 6 7
12	Teutonengold to be replaced by Trofee Tokyo Market to be replaced by Aarselia Polybra to be replaced by Arca (Teutonengold as well as Polybra were considered to have Note 7)	5 7 9
13	Sivasto Trofee Tigra to be replaced by Jobe Polybra	1 3 5 7
15	De Milan rouge extra hâtif à chassis Petrowski	3 5
19	Tokyo Cross to be replaced by A forcer Nantais Tokyo Top to be replaced by De Milan rouge extra hâtif à chassis	7 9
21	Tokyo Market to be replaced by A forcer Nantaise	1
28	De Milan à forcer à collet rose Bency	1 3
29	A forcer Nantaise	1

(iv) The Working Party had certain reservations regarding the use of un-protected example varieties from certain non-member States, e.g. the example variety "Siniaja Mestujaja," as it would be difficult to obtain material from those varieties and there would be no certainty of the material obtained in the various member States being always the same.

[End of Annex II and of document]