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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

Forty-First Session
Angers, France, May 21 to 25, 2012

REPORT

adopted by the Technical Working Party for Agricultural Crops (TWA)

1. The Technical Working Party for Agricultural Crops (TWA) held its forty-first session in Angers, France, from May 21 to 25, 2012. The list of participants is reproduced in Annex I to this report.

2. The session was opened by Mrs. Robyn Hierse (South Africa), Chairperson of the TWA, who welcomed the participants, in particular new participants to the TWA, and thanked France for hosting the TWA session.

3. The TWA was welcomed by Mr. Robert Tessier, *Sous-Directeur de la Qualité et de la protection des végétaux*, *Ministère de l'agriculture et de la pêche*.

4. The TWA received presentations from Mrs. Sylvie Dutartre, Director of the *Groupe d'Étude et de contrôle des Variétés Et des Semences* (GEVES), Mr. Georges Sicard, Head of the Variety Testing Department of GEVES and Ms. Virginie Bertoux, Head of *Instance Nationale des Obtentions Végétales* (INOV). Copies of the presentations are provided in Annex II.

Adoption of the Agenda

5. The TWA adopted the agenda as reproduced in document TWA/41/1 Rev..

6. The TWA noted that additional participants would join the discussions via WebEx for the following agenda items:

- draft Test Guidelines for Rhodesgrass,
- presentation of a web based TG Template and
- presentation on the PLUTO Database

Short Reports on Developments in Plant Variety Protection

(a) Reports on developments in plant variety protection from members and observers

7. The TWA noted the information on developments in plant variety protection from members and observers provided in document TWA/41/31. The TWA noted that reports submitted to the Office of the Union after May 11, 2012, would be included in an addendum to document TWA/41/31.

(b) Reports on developments within UPOV

8. The TWA received a presentation from the Office of the Union on the latest developments within UPOV, a copy of which is provided in document TWA/41/32.

Molecular Techniques

9. The TWA noted the information provided in document TWA/41/2 “Molecular Techniques”.

TGP Documents

10. The TWA considered the TGP documents below on the basis of document TWA/41/3.

Revision of TGP Documents:

TGP/7: Development of Test Guidelines

(i) Summary of revisions agreed for document TGP/7

11. The TWA considered document TWA/41/11.

12. The TWA noted that the TC had agreed that the guidance in document TGP/7: GN 7 should be extended to encourage Leading Experts to consider the quantity of plant material required for similar crops in order to seek consistency as far as that was appropriate. In that regard, it had agreed that a summary of the following information should be prepared by the Office of the Union for all adopted Test Guidelines and made available to Leading Experts on the TG Drafters’ webpage in order that information on Test Guidelines for similar crops could be presented to the Subgroup of Interested Experts by the Leading Expert:

(a) Chapter 2.3 Minimum quantity of plant material to be supplied by the applicant

(b) Chapter 3.1 Number of growing cycles

(c) Chapter 3.4.1 Each test should be designed to result in a total of at least X plants

(d) Chapter 4.1.4 Number of plants / parts of plants to be examined for distinctness

(e) Chapter 4.2 Number of plants to be examined for uniformity

(f) Number of plants for special tests (e.g. disease resistance).

13. The TWA agreed that, as proposed in document TWA/41/11 Annex, document TGP/7: GN 7 should be amended to read as follows:

1. “GN 7 (TG Template: Chapter 2.3) – Quantity of plant material required

“The drafter of the Test Guidelines should consider the following factors when determining the quantity of material required:

(i) Number of plants/ parts of plants to be examined
(ii) Number of growing cycles
(iii) Variability within the crop
(iv) Additional tests (e.g. resistance tests, bolting trials)
(v) Features of propagation (e.g. cross-pollination, self-pollination, vegetative propagation)
(vi) Crop type (e.g. root crop, leaf crop, fruit crop, cut flower, cereal, etc.)
(vii) Storage in variety collection
(viii) Exchange between testing authorities
(ix) Seed quality (germination) requirements
(x) Cultivation system (outdoor/glasshouse)
(xi) Sowing system
(xii) Predominant method of observation (e.g. MS, VG)

“In general, in the case of *plants* required only for a single growing trial (e.g. no plants required for special tests or variety collections), the number of plants requested in Chapter 2.3 often corresponds to the number of plants specified in Chapters 3.4 “Test Design” and 4.2 “Uniformity”. In that respect, it is recalled the quantity of plant material specified in Chapter 2.3 of the Test Guidelines is the minimum quantity that an authority might request of the applicant. Therefore, each authority may decide to request a larger quantity of plant material, for example to allow for potential losses during establishment (see GN 7 (a)). In

relation to the number of plants specified in Chapter 2.3, the number of plants/parts of plant to be examined (Chapter 4.1.4), should at least allow for the possibility of off-type plants within the tolerated number to be excluded from observations."

14. With regard to the proposed Additional Standard Wording (ASW) for Chapter 2.3 (minimum quantity of plant material), the TWA agreed that it would not be appropriate to seek to develop ASW, because the matter concerned arrangements by individual members of the Union.

(ii) Guidance on the number of plants to be examined (for distinctness)

15. The TWA considered document TWA/41/12 and the presentation made by the expert from Germany.

16. The TWA agreed to correct Annex II, paragraph 3 from "qualitative" to "quantitative".

17. The TWA agreed that the number of plants for candidate varieties and varieties to be compared with the candidate varieties, as set out in the last paragraph of Annex II to document TWA/41/12, needed further clarification with regard to similar varieties of common knowledge. In particular, it was recalled that candidate varieties would also need to be considered as potential similar varieties of common knowledge.

(iii) Guidance for method of observation

18. The TWA considered document TWA/41/13 on guidance for method of observation and the indication of observation by measurement for characteristics such as dates and counts, with a view to inclusion in GN 25 "Recommendations for conducting the examination" in document TGP/7. It agreed with the proposed text for guidance on method of observation as set out in paragraphs 2 to 6 of the Annex to document TWA/41/13 and proposed to modify the text of paragraph 7 to read as follows:

"(b) Number

7. If a characteristic is observed by counting (for example 'Number of lobes', observed by counting), the assessment is a measurement (M). If a characteristic is observed by estimation (for example 'Number of lobes', observed by estimation), the assessment is a visual observation (V)."

(iv) Example Varieties

19. The TWA considered document TWA/41/14. The TWA supported the proposal made by the expert from New Zealand and presented by an expert from France as follows:

- Leading Expert collects the example varieties proposed by the interested UPOV members with a description for each of these varieties.
- Leading Expert compiles the proposals taking into account the number of countries in common. Request for additional information on descriptions if necessary.
- Based on the descriptions received, Leading Expert analyses the robustness of the levels of expression and establishes a proposal based on the most common varieties as a first priority for QN characteristics. This proposal included in the 2nd draft will be studied by the experts before the following session and discussed during the session.
- Finally the subgroup decides for which characteristic the example varieties will be proposed.

(v) Providing Photographs with the Technical Questionnaire

20. The TWA considered document TWA/41/15 and noted the modifications introduced in the document. It agreed that the proposed new text for ASW 16 should be reviewed taking into consideration that different authorities might have different procedures concerning the provision of photographs with the Technical Questionnaire and, in particular, that the provision of photographs might be optional for some authorities but mandatory for some others. It also requested clarification on the means by which the guidance in the document would be made available to the applicants. The TWA took note of the concern expressed by the representative of European Seed Association (ESA) for submission of photographs for vegetable species.

TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability

TGP/8 PART I: DUS TRIAL DESIGN AND DATA ANALYSIS
New Section 2 - Data to be recorded

21. The TWA considered document TWA/41/16.

22. The TWA received a presentation by an expert from Germany. It noted the modifications made in the document and agreed that the document should be submitted to the TC for approval at its next session. The TWA also proposed that an explanation of the importance of both statistical approaches and expertise in DUS testing should be reflected in other TGP documents, such as TGP/9 and TGP/10.

TGP/8 PART II: TECHNIQUES USED IN DUS EXAMINATION
New Section - Guidance of data analysis for blind randomized trials

23. The TWA considered document TWA/41/17.

24. The TWA noted the information contained in document TWA/41/17 and the presentation received by the expert from France on guidance of data analysis for blind randomized trials. Remarks by the TWA expressed the importance of these blind randomized trials for the breeders and mentioned the contribution they made to the system. The TWA recommended that the work on that guidance should be continued on the basis of that document.

TGP/8 PART II: TECHNIQUES USED IN DUS EXAMINATION
New Section - Guidance for Development of Variety Description

25. The TWA considered document TWA/41/18.

26. The TWA agreed that the document should be redrafted, recommending that the reference to COYD method was not appropriate. It recommended that the draft should include guidance on how to deal with variety x growing cycle interactions, mainly for quantitative characteristics in more than one growing cycle in one location and more than one location. These two situations should not be considered separately and the drafter should refer to TGP/8 and New Section 2 “Data to be recorded”. A remark was made suggesting the use of example varieties as a tool to evaluate the interaction.

TGP/8 PART II: TECHNIQUES USED IN DUS EXAMINATION
Section 3, Subsection 3.6 - Adapting COYD to Special Circumstances

27. The TWA considered document TWA/41/20.

28. The TWA supported the inclusion of the proposed text as Subsection 3.6 in Section 3 of TGP/8 Part II.

TGP/8: PART I: TECHNIQUES USED IN DUS EXAMINATION
New Section - Reduction of size of the trials

29. The TWA considered document TWA/41/21 Corr. and received a presentation by an expert from the United Kingdom.

30. The TWA considered the presented method useful and recommended inclusion into the Document TGP/8.

TGP/8: PART II: TECHNIQUES USED IN DUS EXAMINATION
Section 4 - 2X1% Method - Minimum Number of Degrees of Freedom for the 2x1% Method

31. The TWA considered document TWA/41/22.

32. The TWA noted the proposal for the revision of Section 4 of document TGP/8 on the minimum number of degrees of freedom for the 2x1% method. The TWA agreed to invite the TWC to clarify whether COYD was the preferred method, or to explain the circumstances in which the 2x1% method would be preferred.

TGP/8: PART II: TECHNIQUES USED IN DUS EXAMINATION
The Combined-Over-Years Uniformity Criterion (COYU) - Minimum Number of Degrees of Freedom for COYU

33. The TWA considered document TWA/41/23.

34. The TWA noted the proposal for the revision of the minimum number of degrees of freedom for distinctness. The TWA agreed to request the TWC to clarify the changes and to suggest how to revise the schematic in document TGP/8 Part I Section III: Choice of statistical methods for examining for distinctness Chapter 3.4 “Requirements for statistical methods for distinctness assessment”.

TGP/8: PART I: DUS TRIAL DESIGN AND DATA ANALYSIS
New Section - Minimizing the Variation due to Different Observers

35. The TWA considered document TWA/41/24.

36. The TWA noted document TWA/41/24, presented by the expert from Netherlands. It was informed that the document has been amended from last year to include the comments received from the TWP sessions in 2011.

TGP/8: PART II: TECHNIQUES USED IN DUS EXAMINATION
New Section 10 - Minimum number of Comparable Varieties for the Relative Variance Method

37. The TWA considered document TWA/41/26.

38. The TWA agreed that Chapter 10.2 “Threshold limits for Relative Variance Method” of the Annex to document TWA/41/26 should be considered by the TWC for incorporation in document TGP/8/1 Section 10. The TWA agreed that the remaining paragraphs were already covered by TGP/8/1 Section 10.

TGP/8: PART II: TECHNIQUES USED IN DUS EXAMINATION
New Section 10 - Examining DUS in Bulk Samples

39. The TWA considered document TWA/41/28.

40. The TWA considered that in relation to bulk samples there were no specific requirements for assessment of distinctness. The TWA agreed that as long as practical examples could not be provided no specific guidance for the assessment of uniformity was necessary.

TGP/8: PART II: TECHNIQUES USED IN DUS EXAMINATION
New section: Statistical Methods for Visually Observed Characteristics

41. The TWA considered document TWA/41/29.

42. The TWA noted that the presented method was an alternative to the Chi-square test for independence in the contingency table. The TWA proposed that the new Section for TGP/8 be developed in closer relation to TGP/8/1 Section 5 “Pearson’s chi-square test applied to contingency tables”. The TWA agreed that the example of Sugar beet was not appropriate and the example on Carrot needed to be reconsidered. The TWA suggested to consider the development of a new Section with the same example as in TGP/8/1 Section 5.

TGP/8: PART II: TECHNIQUES USED IN DUS EXAMINATION
New Section: Methods for Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions

43. The TWA considered document TWA/41/30.

44. The TWA noted the information that a summary of different approaches used for data processing for the assessment of distinctness and for producing variety descriptions would be developed by the Office of the Union.

Uniformity assessment

(a) Method for calculation of COYU

45. The TWA noted the information provided in document TWA/41/10.

(b) Assessing uniformity by off-types on the basis of more than one sample or sub-samples

46. The TWA considered document TWA/41/9.

47. The TWA agreed that clarification should be provided for Situations A and B if the approach combining the results from two growing cycles was considered to correspond to the requirement for "independent" growing cycles.

48. The TWA noted the explanation from the expert from the Czech Republic that the apple example should be deleted, because the same approach was used as for other crops.

49. On the basis of information provided at the meeting on "Situation B: Two growing locations in the same year, Approach: Third growing cycle in case of inconsistent results", the TWA agreed to revise the text to read as follows:

> "[…] If the variety is within the uniformity standard in one growing location but is not within the uniformity standard in the other growing location, then:
>
> Alternative (a) the trial is repeated at both locations for a second year;
>
> Alternative (b) the trial is repeated at the Leading station (location) (European Union)"

50. In the case of "Situation D: Assessing sub-samples within a single test/trial, Approach: Sub-sample as first step of assessment", the TWA agreed that the explanation should be generalized (i.e. no reference to 0 off-types in the subsample) and should provide an explanation of the statistical basis for the approach. The TWA also agreed that the statistical experts from France and Germany should be invited to explain the statistical basis for the acceptable number of off-types in the subsample of 20 plants used in the context of a sample size of 100 plants.

51. The TWA noted that the TWC would be invited to provide guidance on the possible consequences of different approaches.

Information and databases

(b) Variety description databases

52. The TWA noted the information contained in document TWA/41/6 and in the presentation provided by an expert from France, which would be included in an addendum to document TWA/41/6. The expert from France presented a method to evaluate different grouping characteristics for Pea. The TWA agreed that the work on the project for the Pea database should be continued and that it would be a good example for the development of similar databases for other crops. It also agreed that it would be a good basis for future revision of the Test Guidelines for Pea in respect of grouping characteristics.

TGP/14: Glossary of Terms Used in UPOV Documents

53. The TWA considered document TWA/41/27.

54. The TWA agreed with the proposed text in Annex I to document TWA/41/27 concerning the perspective from which to observe plant shapes.

55. The TWA agreed with the proposed definitions for peduncle, pedicel, petiole and petiolule and recommended to check translation of these terms.

56. With regards to revision of "components of shape: states of expression for ratios" the TWA recommended that it would be more appropriate to use the states small to large in place of low to high when

considering ratio: length/width. If the characteristic ratio: length/ width was presented as shape, then the states would be compressed to elongated.

57. The TWA considered the guidance on use of composite characteristics for determining distinctness and uniformity contained in Annex V to document TWA/41/27. The TWA agreed that the presented method was useful and recommended its inclusion in document TGP/14.

(ii) New Section for Color Characteristics

58. The TWA considered document TWA/41/25 and it noted modifications made in the new draft on the basis of the comments by the TWPs in 2011.

Variety denominations

59. The TWA noted the developments reported in document TWA/41/4.

Discussion on Draft Test Guidelines

Adlay (*Coix lacryma-jobi* L. var. ma-yuen (Rom. Caill.) Stapf.)

60. The subgroup discussed document TG/COIX(proj.2), presented by Mr. Yoshiaki Takamatsu (Japan), and agreed the following:

Cover page	UPOV Code to read “COIXX_MAY”
4.2.2	- to delete first sentence - L.E. to check population standard
Char. 1	- to check whether QL is correct - to check example variety of state (9) (see char. 7)
Char. 3	to be indicated as VG/MS
Char. 4	to check whether to have notes (1), (3), (5) and whether to be indicated as VG/MS
Char.6	to check whether to change notes to (1), (3), (5)
Char. 9	to add (+) and explanation that total number of grains is only observed on main stem
Char. 10	- to correct spelling of “culm” - China to provide example varieties - to check whether QL is correct
Char. 13	- to read “Leaf: green color” - to have notes (1), (2), (3)
Char. 17	to check whether char. to read “Anthocyanin coloration”
Char. 24	to add example varieties for states (1) and (2)

Adzuki/Red bean (Vigna angularis (Willd.) Ohwi & H. Ohashi)

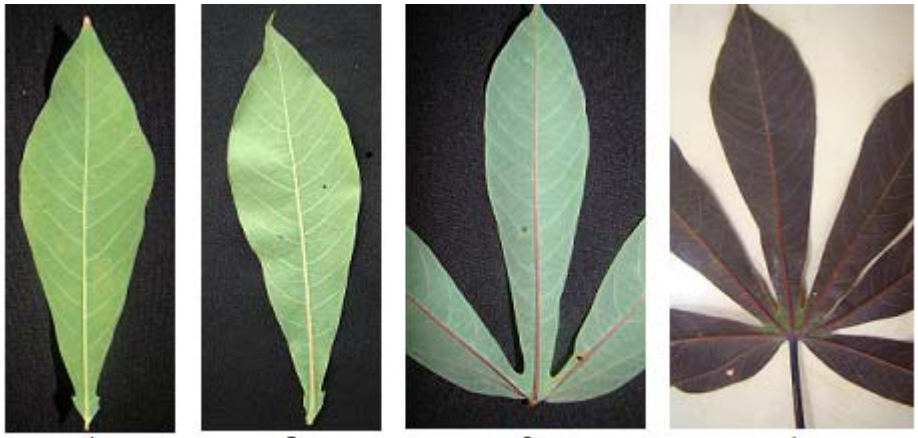
61. The subgroup discussed document TG/ADZUK(proj.1), presented by Mr. Masayuki Uchida (Japan), and agreed the following:

Cover page	to add French name “Haricot rouge”, German names “Rote Bohne” and “Adzuki Bohne”, Spanish names “Frijol rojo”, “Habichuela”
5.3	to check whether number of grouping characteristics should be reduced
Char. 5	to check whether this characteristic refers to color or anthocyanin coloration
Char. 7	if QL to add (*)
Char. 8	to have states (1) acuminate, (2) acute, (3) obtuse
Char. 12	to read “Pod: color” and to replace current states of expressions by colors
Char. 14	to be indicated as (b) instead of (a)
Char. 15	to be deleted

Char. 16	to check and to add states
Char. 17	to check whether QL
Char. 18	state (2) to read yellowish brown
Char. 19	to check whether QL
Char. 20	to delete (+)
Ad. 12	to add explanation that to be observed at time of maturity
Ad. 18	to read “Main color is the color of the largest area in bi-colored varieties.”
Ad. 20	to be deleted

Cassava (*Manihot esculenta* Crantz.)

62. The subgroup discussed document TG/CASSAV(proj.3), presented by Mr. Luis Pacheco (Brazil) and Mr. Simeon Kibet Kogo (Kenya) and agreed the following:

Cover page	- to add Spanish common names “Mandioca” and “Yuca” - to add German and French common names
5.3	- to check whether number of grouping chars. can be reduced - to correct number of characteristic 5.3 (b)
Table of Chars.	- to add an annex with regional example varieties from Brazil and the United Republic of Tanzania
Char. 9	to add example varieties for states (3) and (4) and improve existing photos and add photo for state (4) as follows:  1 green 2 reddish green 3 red 4 purple
Char. 11	to add to Ad. 11 that to be observed on the upper third of the plant
Char. 12	to add to Ad. 12 that to be observed on the upper third of the plant
Char. 17	state (4) to read “brownish yellow” instead of “golden”
Char. 19	to be indicated as QL
Char. 21	to read “Stem: distance between leaf scars”
Char. 22	to read “Stem: color of end branches (at apex)”
Char. 23	to check whether the term “peduncle” is correct

Ad. 14	to be added as follows:  1 compact 2 open 3 umbrella 4 cylindrical
Ad. 15	to be added as follows:  1 unbranched 2 branched
Ad. 16	to be added as follows:  1 light green 2 dark green 3 cream 4 purplish
Ad. 21	- to add an explanation that the characteristic should be observed at the middle third of the plant - to delete indication of length - to add illustration as follows: 
TQ 6	to add example

Common Vetch (*Vicia sativa* L.)

63. The subgroup discussed document TG/32/7(proj.3), presented by Mr. Luis Salaices (Spain), and agreed the following:

3.3.1	to delete “Common vetch”
4.2.2, 4.2.3	to read: “4.2.2 The recommended sample size for the assessment of uniformity is indicated by the following key in the table of characteristics: A sample size of 100 plants/parts of plants B sample size of 200 plants 4.2.3 For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 200 plants, 5 off-types are allowed. In the case of a sample size of 100 plants or parts of plants, 3 off-types plants are allowed.”
4.2.4	to read “For “A” characteristics, the assessment of uniformity can be done in 2 steps.”
6.5	- to delete current text and to read “A, B: see chapter 4.2.”
Char. 1	to add illustration of ratios
Char. 3	to delete (+)
Char. 4	to replace 61 by 63
Char. 7	to have notes (1), (3) and (5)
Char. 9	to become a grouping characteristic
Char. 17	- states and example varieties to read as follows: (1) circular with “Aneto”, “Ina” (2) slightly irregular with “Acisreina” (3) irregular with “Castilla” - to be indicated as PQ
Char. 18	- states of expression to read (1) whitish, (2) greyish green, (3) greyish brown, (4) brown - to be indicated as PQ
Char. 20	to read “Seed: area of brown ornamentation”
Char. 22	to read “Seed: area of blue-black ornamentation”
8.1	to be renumbered as 8.2 and to read as follows: “Phenological growth stages of common vetch adapted from BBCH of pea (Meier 1997)”
8.2	to become 8.1
Ad. 1	to add illustration of ratios
Ad. 3	to be deleted
Ad. 7	States of expression to be renumbered as 1, 3 and 5
Ad. 17	to delete drawings, to keep only explanation
Ad. 20	to be deleted
Ad. 22	to be deleted
TQ 5	to be inserted characteristic 9

Elytrigia (*Elytrigia elongata* (Host) Nevski)

64. Due to the absence of the Leading Expert from Argentina, the subgroup agreed not to discuss document TG/ELYTR(proj.2). The TWA agreed to propose to the Leading Expert and the interested experts to have an informal subgroup discussion via WebEx after the TWA, which would be organized with the support of the Office of the Union.

Foxtail Millet (*Setaria italica* (L.) Beauv.)

65. The subgroup discussed document TG/SETARIA(proj.6), presented by Mr. Xianmin Diao (China), and agreed the following:

2.2	to read “The material is to be supplied in the form of seed.”
2.3	to delete “and 50 panicles (if required by the competent authorities)”
3.4.2	to be deleted
4.2.2	to read “For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 1,000 plants 15 off-types are allowed.”
4.2.3, 4.2.4	to be deleted
Char. 2	to insert growth stage 15 (time of assessment) and to read “Plant anthocyanin coloration of basal leaf sheath”
Char. 3	to read “Plant: intensity of green color of foliage”
Char. 12	to be indicated as MS/MG
Char. 13	to be indicated as MS/MG
Char. 15	to be indicated as MS/MG
Char. 18	Time of assessment to read: “91 – 92”
Char. 19	Time of assessment to read: “91 – 92”
Char. 20	Method of assessment to read: “MS – MG” and time of assessment to read: “91 – 92”
Char. 21	Time of assessment to read: “91 – 92”
Char. 22	to be indicated as MS/MG
Char. 24	- to be indicated as MS/MG - to read “Panicle: number of grains on primary branch”
Ad. 2	to delete “The observation should be made on the bottom of shoot after the 7th leaf fully developed”
Ad. 9	to read “Bristles originate from the sterile spikelets.”
Ad. 15	to delete “Plant length to be observed from the natural base of the main stem to the bottom point of the panicle (cm)” and to read: “Ad. 15: Stem: length Ad. 18: Plant: number of elongated internodes Ad. 20, 22 Char. 18. Count the elongated internodes, excluding the peduncle.”
Ad. 15	figure to read “Char. 15: Stem: length”; “Char. 18: number of elongated internodes”; “Char. 20: length of peduncule”; “Char. 22: length of panicle”
Ad. 16	to read “to be observed between the third and fourth nodes from the base”
Ad. 18	to be deleted
Ad. 20	to be deleted
Ad. 22	to be deleted
Ad. 23	to read “The density of the panicle is the number of rachis per centimeter in the middle third of the panicle.”
Ad. 24	to read “The number of grains should be counted on a primary branch taken from the middle third of a main stem panicle.”
Ad. 29	to read: “The characteristic is observed by reaction to solution of 3% Potassium Iodide and 1% Iodine: waxy type endosperm is stained reddish purple; non-waxy type endosperm is stained blue purple.
8.3	to check whether BBCH scale
Scale table stage 92	to read: “Caryopsis hard (can no longer be dented by thumbnail)”

Groundnut (*Arachis hypogaea* L.) (Revision)

66. The subgroup discussed document TG/93/4(proj.2), presented by Ms. Lynette Croukamp (South Africa), and agreed the following:

5.3	- to delete characteristics 4 and 22 - to ad characteristic 10
Table of Chars.	to add example varieties
Char. 2	state (3) to read “tips strongly upturned”
Char. 3	to check whether density is appropriate
Char. 4	- to combine characteristics 4 and 5 - to be indicated as QN - to have states (1) absent or very weak, (2) weak, (3) medium, (4) strong
Char. 6	- to read “Basal leaflet: length” - to add (+) - to add an explanation
Char. 7	- to add (*) - to read “Basal leaflet: predominate position of broadest part”
Char. 8	- to have states (1) moderately acute, (2) broadly acute, (3) rounded, (4) retuse - to read “Basal leaflet: predominate shape of apex”
Char. 11	to read “Primary branches: flowering pattern”
Char. 12	- to correct spelling of “constriction” - state (1) to read “absent or very weak” - state (2) to read “weak” - state (4) to read “strong” - state (5) to read “very strong”
Char. 14	to have states (1) predominately two), (2) predominantly three or more
Char. 15	Brazil to provide example varieties or to be deleted
Char. 16	to add example varieties, (+) and explanation
Char. 17	- to add (*) and example varieties - Japan to provide example varieties
Char. 18	to add photographs
Char. 19	to check and add explanation
Char. 21	to add explanation
Char. 22	to be deleted
8.1 (c)	to read “at maturity”
8.1 (d)	to improve explanation
Ad. 11	to read “alternate (1): nodes with flowers alternating with nodes without flowers sequential (2): flowers on each node”
Ad. 12	to read “The predominant expression should be observed“
Ad. 22	to be deleted
9.	Literature to be added
TQ 1	to add subspecies
TQ 5	to change according to the Table of Characteristics
TQ 6	to change example according to char. in the Table of Chars.

Kentucky Bluegrass (*Poa pratensis* L.) (Revision)

67. The subgroup discussed document TG/33/7(proj.1), presented by Mrs. Beate Rücker (Germany), and agreed the following:

4.1.4	to read "Apomictic varieties: Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observations made on all plants in the test, disregarding any off-type plants. Non-apomictic varieties: Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observations made on all plants in the test."
4.2.2	to read "Apomictic varieties: For the assessment of uniformity a population standard of 2 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 30 plants, 2 off-types are allowed."
4.2.3	to read "Non-apomictic varieties: The assessment of uniformity should be according to the recommendations for cross-pollinated varieties in the General Introduction."
Table of Chars.	to consider whether old characteristic "Leaf sheath: density of hairs of margin" should be added (NL to provide information)
Char. 4	to reconsider wording of the characteristic in order to prevent confusion (vernalization)
Char. 8	- growth stage to be indicated as 30-35
Char. 9	- growth stage to be indicated as 30-35
Char. 12	state (1) to read "narrow", state (3) to read "broad"
Char. 13	- to reconsider wording of the characteristic - to add (+) and explanation whether inflorescence is included
Char. 18	to check whether 9 states are appropriate
TQ 4.2.1	to have (a) Apomictic, (b) Non-apomictic, (c) Other
TQ 5	to check whether more characteristics should be added
TQ 9.3	to check whether that information is relevant

Rhodesgrass (*Chloris gayana* Kunth)

68. The subgroup discussed document TG/RHODES(proj.1), presented by Mrs. Robyn Hierse and Mr. Tanvir Hossain (Australia, participating via WebEx), and agreed the following:

4.2	- to use Standard Wording for cross-pollinated varieties - to list characteristic (see carrot as example)
Char. 1	to be indicated as VG
Chars. 3 and 4	to correct spelling of example variety of state (3) to read "Asatsuyu"
Char. 7	to add explanation
Char. 8	- to be indicated as MS - to add A
Char. 18	to add example varieties
Char. 23	- state (1) to read "semi-erect" - state (3) to read "pendulous" - Kenya to provide information on possible 4th state of expression
Char. 24	state (1) to read "light yellow" and add example variety for state (1)

Char. 25	- to read “Inflorescence: length of spikes” and to add explanation - to add example varieties
8.2	- to move drawing showing the position of stolon, culm leaf etc. to Chapter 8.1 as (b) and add (b) to corresponding Characteristics - to add source of literature of illustration to Chapter 9
9.	to correct number of pages of first literature reference to “238-239”
TQ 4.2	to delete paragraphs on hybrids

Sesame (*Sesamum indicum* L.)

69. The TC noted that, in response to a number of technical questions raised by interested experts after the TWA session, it was agreed by the TWA Chairperson and former TWA Chairperson, and the Leading Experts to consider a new draft of TG/SESAME at the forty-first session of the Technical Working Party for Agricultural Crops to be held in Angers, France, from May 21 to 25, 2012.

70. The subgroup discussed document TG/SESAME(proj.6), presented by Mrs. Robyn Hierse (South Africa), in the absence of the Leading Experts from the Republic of Korea and Israel, and agreed the following:

Cover page	to add Spanish name “Ajonjoli”
2.3	to delete comma after “should” in 2nd sentence
Table of Chars.	to check the order of chars. and to check example varieties
Char. 1	Kenya to provide example variety for state (2)
Char. 2	state (3) to read “medium”
Char. 5	state (1) “absent or weak”
Char. 9	- to read “Leaf blade: shape” - to add (+) and to provide explanation
Char. 12	- to add (+) and to provide illustration - to check whether QL
Char. 14	- state (2) to read “medium” - example variety for state (1) to read “Hucksun”, for state (3) to read “Mihuck”
Char. 15	example variety for state (3) to read “Hucksun”
Char. 16	- to read “Peduncle: number of flowers per leaf axil” - to add (+)
Char. 17	to read “Peduncle: nectaries”
Char. 18	- to read “Flower: intensity of pink color on outer side of corolla” - to delete state (1) absent - to have the following states and example varieties: (1) light, “Naman” (2) medium, “Dasak” (3) dark “Mihuck”
Char. 19	- read “Flower: intensity of pink color on inner side of lower lip” - example variety for state (3) to read “Mihuck”
Char. 21	to be deleted
Char. 22	to add example variety for state (2)
Char. 24	example variety for state (5) to read “Mihuck”
Char. 26	to be indicated as PQ

Char. 27	state (3) to read “yellowish brown”, state (4) to read “medium brown”
Char. 28	to check whether to be indicated as QL (see Ad. 28 comments)
Ad. 28	lower photo for smooth looks to have same texture as upper photo for rough!
TQ 6	to change example

Scorpion Weed (*Phacelia tanacetifolia* Benth.)

71. The subgroup discussed document TG/PHACE(proj.2), as presented by Mrs. Bogna Kowalczyk (Poland), and agreed the following:

Cover page	French names to read “Phacélie à feuilles de tanaisie, Phacélie »
Table of Chars.	- to delete G in all concerned chars. - to reconsider number of states
Char. 1	- to delete example varieties “Oka” and “Wolga” - state (3) to read “tetraploid”
Char. 2	either to indicate example varieties or to add explanation
Char. 3	to combine states (2) and (3) in one state “medium green” to be indicated as QN
Char. 6	to have notes (1), (3) and (5)
Char. 7	- to delete (*) - to check states of expression and whether it relates to anthocyanin coloration (environmental influence to be checked)
Char. 11	to check correlation between chararacteristics 7 and 11 and to delete one of the two characteristics
Char. 12	- to read “Inflorescence: number of tendrils” - “of inflorescence of main stem” to be moved to Ad. 12 - to have notes (1), (2), (3) - to check whether it should be infructescence instead of inflorescence
Char. 13	to move example variety “Angelia” to “blue” and check whether it is the correct example variety
8.	to invert chapters 8.1 and 8.2
Ad. 1	to read “The ploidy should be determined by standard cytological methods.“
Ad. 4	- to correct numbering - to read “To be observed from the base to the top of inflorescence on the main stem.”
Ad. 6	to be improved
Ad. 9	- to be combined with Ad. 10 - to indicate from which part of the plant the leaf is taken
Ad. 10	to be combined with Ad. 9
Ad. 12, 14	- to add another photograph for the number of tendrils (later stage) with clear indication of the tendrils - explanation to read “The number of tendrils should be observed on the inflorescence of the main stem. The infructescence should be observed from the uppermost leaf on the main stem to the top of inflorescence.”
TQ 6	to add example “Plant: natural height”, “short”, “tall”

Sorghum (*Sorghum* ssp.) (Revision)

72. The subgroup discussed document TG/122/4(proj.1), presented by Mr. Luis Salaices (Spain), and agreed the following:

2.3	to read "The minimum quantity of plant material, to be supplied by the applicant, should be: 0.2 kg for parentals 1 kg for hybrids and open-pollinated varieties."
4.2	level of uniformity of *Sorghum sudanense* to be possibly revised (ESA to provide information)
Table of Chars.	Spain to circulate example varieties for approval by interested countries
Char. 2	to be deleted
Char. 4	to be indicated as MG/MS
Chars 5-8	growth stages to be indicated as 45-60
Char. 5	to delete states (1) and (9)
Char. 6	to be deleted
Char. 7	states of expression to be reconsidered
Char. 8	- to read "Leaf: area of discoloration of midrib" - to add explanation that observations should be made on the third leaf from the top of the plant - to have states (1) to (9) from "absent or very small" to "very large"
Char. 9	state (1) to read "medium green" state (5) to read "light yellow" state (6) to read "medium yellow"
Char. 11	to add (*)
Char. 12a	to have states (1) whitish, (2) light yellow, (3) medium yellow, (4) dark yellow, (5) grey
Char. 13	to be deleted
new char. after 15	Japan to provide explanation
Char. 17	to be indicated as PQ
new char. after 17	request for comments from interested experts in order to evaluate whether this characteristic should be included in the Test Guidelines
Char. 18.1	characteristics 18.1 and 18.2 to be reconsidered (scales, division of grain and forage varieties) (ES to provide information)
Char 19	to be indicated as VG/MS
Char. 20	to be indicated as VG/MS
Char. 21	to be indicated as VG/MS
Char. 22	to be indicated as VG/MS
Char. 23	to be indicated as VG/MS
Char. 24	to be indicated as VG/MS
Char. 31	state (2) to read "broad elliptic"
Char. 33	to be deleted
Char. 34	to have states (1) absent and (9) present (FR to provide method)
Char. 36	to check whether 5 notes are appropriate

Urochloa (Brachiaria)

73. The subgroup discussed document TG/UROCH(proj.6), as presented by Mr. Luis Pacheco (Brazil), in the absence of the Leading Expert, and agreed the following:

cover Page - title	to check "and their hybrids"

alternative names	French: to be checked; to add in Spanish: “Brachiaria” for all Urochloa species, except *Urochloa humidicola*
1.	to indicate example combination of hybrids (see GN 3), including for Groups 1 and 2
2.2	to delete: “or plants”
4.2.1	to add wording for cross-pollinated species
4.2.2	to check whether to use Carrot example
5.3	to check grouping characteristics
Char. 1	states of expression to read: (1) erect; (3) semi erect; (5) ascending and; (7) prostrate
Char. 4	to be deleted
Char. 5	to read: “pachymorph”
Char. 8	to check if 9 states are appropriate
Char. 9	state (2) to read: “medium”
Char. 10	to read: “ Leaf sheath: density of hairs”
Char. 11	to read: “Leaf: distribution of hairs on sheath”
Char. 13	to add information on example varieties according to results of ongoing tests
Char. 15	to check whether QL
Char. 16	to add example varieties
Char. 17	to check whether 9 states of expression is appropriate
Char. 20	illustration to be provided
Char. 22	to read: “Spikelet: pubescence”
Char. 24	to check whether QL
8.1	to delete paragraph “Definitions:…”
Ad. 4	to be deleted
Ad. 5	to read: “pachymorph” and to improve drawings or add photos
Ad. 9	state (2) to read: “medium”
Ad. 12, 17, 18, 19, 21 and 24	to add illustration
TQ 6	to add example

Wheat (*Triticum aestivum* L. emend. Fiori et Paol.) (Revision)

74. The subgroup discussed document TG/3/12(proj.1), as presented by Mr. Joël Guiard (France), and agreed the following:

General remark	- to correct spelling of “color” throughout document
2.3	to read “The minimum quantity of plant material, to be supplied by the applicant, should be: Seeds: 3 kg Ears (if requested): 120”
3.4.1	France will provide information on the levels of risk in relation to the number of plants in the trial (2000 plants) to study the possibility to reduce the size of the trial.
4.2	to delete headings of subsections, only keep numbering of paragraphs
4.2.6	- to correct numbering to 4.2.5 - to delete first paragraph
5.4	to be deleted
Table of Chars.	- France to circulate example varieties for approval by interested countries in order to define regional sets based on an exchange of information - to indicate winter and spring time type varieties
Char. 1	state (1) to read “absent or very light”
Char. 3	to check whether example variety “Bandera” for state (1) is correct

new char.	- to add new characteristic after characteristic 7 “Culm: density of hairiness of uppermost node” - to be indicated 60-65, VG, A and to have states (1) to (9) from “very low” to “very high” - new characteristic to be checked by interested experts
Char. 11	to delete “very” from states (1) and (3)
Char. 12	- to change order of states of expression back to old order - state (4) to read “slightly clavate” - state (5) to read “strongly clavate” - to move example varieties as follows: (2) Apache, (3) Arezzo, (4) Viscount, (5) Aura
Char. 13	to be indicated as VG/MS and B
Char. 14	to be indicated as VG/MS and B
Char. 15	state (2) to read “only scurs present”
Char. 16	to be indicated as VG/MS
Char. 17	- to check whether the states of expression are correct and whether two additional states (slightly and strongly colored) should be added- to be checked by interested experts - to be indicated as PQ
Char. 18	- to correct spelling of “extent” - to have states (1) to (9) from “absent to very small” to “very large” (instead of weak and strong)
Char. 20	state (1) to read “strongly sloping”, state (7) to read “slightly elevated”
Char. 21	- to be indicated as VG/MG - to check whether example variety “Bandera” is correct
Char. 23	- state (1) to read “small”, state (5) to read “large” - Spain to provide more information in order to change notes from (1) to (5) to (1) to (9)
new char.	to add new characteristic after characteristic 23: “Lower glume: hairiness on external surface” with states (1) absent and (9) present, QL, VG, A. GB to provide illustration
Char. 24	- to collect more information on red color, either to add states of expression (slightly and strongly colored) or to add additional characteristics (Intensity of red color) - to become characteristic 1, growth stage to be indicated as 00
Char. 25	- to read Seasonal type - to add explanation: “The seasonal type (need of vernalization) should be assessed on one or several plots sown in springtime. Example varieties should always be included in the plots. When the example varieties behave according to this description, the varieties under study can be described. At the time when the latest spring type variety is fully mature (stage 91/92 of the Zadoks decimal code), the growth stage reached by the respective variety should be assessed. The states of expression are defined as follows: Winter type (high need of vernalizations), the plants have reached stage 45 of the Zadoks decimal code (boots swollen) at maximum Alternative type (partial need of vernalization), the plants have exceeded stage 45 of the Zadoks decimal code---as a rule they have exceeded stage 75---and have reached stage 90 at maximum Spring type: (no need or very weak need of vernalization), the plants have exceeded stage 90 of the Zadoks decimal code.”
new char.	- to reconsider deletion of characteristic “Lowest lemma: beak shape” on basis of information submitted by GB expert
new char.	- to add old char. “Flag leaf: anthocyanin coloration of auricles” from TG/3/11+Corr.
new char.	- GB to provide information on possible new characteristic “Lower Glume: surface texture (roughness)” - to be checked by interested experts
new char.	- Chile to provide information on possible new characteristic “Grain: shape” - to be checked by interested experts

new. char.	Croatia to provide study on electrophoresis to be circulated for possible new electrophoresis characteristic. Interested experts are invited to examine the necessity to keep annex for electrophoresis.
Ads. 1 and 2	to keep old method as in document TG/3/11+Corr. and to explain that other methods can be used as soon as they are validated and give the same results, GEVES can be contacted for more information on the new protocol as described in the draft
Ad. 3	to check whether to improve photographs for notes (7) and (9)
Ad. 11	- to copy from CPVO protocol text and drawings
Ad. 12	photograph for state (4) to improve
Ad. 13	to improve photograph for state (3)
Ad. 14	to delete photographs
Ad. 17	to add photograph for new state (2)
Ad. 18	to improve drawings (add more grey to indicate hairs) according to the Spanish proposal
Ad. 24	to add explanation that it can be observed on dry seed or by using NaOH solution

Recommendations on draft Test Guidelines

(a) Test Guidelines to be put forward for adoption by the Technical Committee

75. The TWA agreed that the following draft Test Guidelines should be sent to the TC for adoption at its forty-ninth session, to be held in Geneva in March 2013, on the basis of the following documents and the comments in this report:

Subject	Basic Document
Common Vetch (*Vicia sativa* L.) (Revision)	TG/32/7(proj.3)
Foxtail Millet (*Setaria italica* (L.) P.Beauv.)	TG/SETARIA(proj.6)
Sesame (*Sesamum indicum* L.)	TG/SESAME (proj.8)

(b) Test Guidelines to be discussed at the forty-second session

76. The TWA agreed to discuss the following draft Test Guidelines at its forty-second session:

Adlay (*Coix ma-yuen* Roman.)
Adzuki/Red bean (*Vigna angularis*)
*Cassava (*Manihot esculenta* Crantz.)
Elytrigia (*Elytrigia elongata* (Host) Nevski), (*Agropyron elongatum* (Host) P. Beauv.)
*Groundnut (*Arachis* L.) (Revision)
Kentucky Bluegrass (*Poa pratensis* L.) (Revision)
Potato (*Solanum tuberosum* L.) (Revision)
*Rhodesgrass (*Chloris gayana* Kunth)
Scorpion Weed (*Phacelia tanacetifolia* Benth.)
Sorghum (*Sorghum bicolor* L.) (Revision)
*Urochloa
Wheat (*Triticum aestivum*) (Revision)

77. The leading experts, interested experts and timetables for the development of the Test Guidelines are set out in Annex IV.

Recommendations on draft Test Guidelines

78. The TWA expressed its interest to revise the Test Guidelines for Triticale, Barley and Soya Bean in the near future.

Guidance for drafters of Test Guidelines

79. The TWA noted the revision of the "Practical Guidance for Drafters (Leading Experts) of UPOV Test Guidelines", Section "Test Guidelines for Discussion at the Technical Working Party", as available on the TG Drafters webpage (see document TC/48/3). The revision concerns the information that "a 'clean' version of the draft should be provided: the draft should not contain any comments within the document. If necessary, any comments should be included in an annex or in a separate document".

80. The TWA concluded that to facilitate the work during the subgroup discussions it would be helpful to have relevant comments in the Test Guidelines.

81. The TWA noted that, if a Leading Expert of a draft Test Guidelines could not attend a TWP session, the Test Guidelines could be withdrawn from the Agenda of the concerned TWP session. If the Leading Expert and the interested experts wish, an informal subgroup discussion via WebEx after the TWP, could be organized with the support of the Office of the Union.

82. The TWA received a presentation on the project of a web based TG Template in order to introduce the project to drafters of Test Guidelines and seek their feedback and input.

83. The TWA noted the features of the proposed TG Template and discussed possibilities on the use of such a template and related databases also for the development of national guidelines. The TWA supported the initiative and agreed to the continuation of work on the TG Template.

Information and databases (continued)

(a) UPOV information databases

84. The TWA received a presentation on the PLUTO database by Mr. Glenn Mac Stravic, Head of the WIPO Brand Database Unit, via WebEx.

85. The TWA noted the information provided in document TWA/41/5.

86. With regard to Annex V "UPOV codes to be checked by authorities", the experts of the TWA were invited to provide comments to the Office of the Union by August 31, 2012.

(c) Exchangeable software

87. The TWA noted the information provided in document TWA/41/7.

(d) Electronic application systems

88. The TWA noted the information provided in document TWA/41/8.

Date and Place of the Next Session

89. At the invitation of Ukraine, the TWA agreed to hold its forty-second session in Kiev, from June 17 to 21, 2013, with the preparatory workshop on June 16, 2013.

Future Program

90. The TWA proposed to discuss the following items at its next session:

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection

(a) Reports from members and observers (oral reports by the participants)

(b) Reports on developments within UPOV (oral report by the Office of the Union)

4. Molecular Techniques (document to be prepared by the Office of the Union)

5. TGP documents

6. Variety denominations (document to be prepared by the Office of the Union)

7. Information and databases

(a) UPOV information databases (document to be prepared by the Office of the Union)

(b) Variety description databases (document to be prepared by the Office of the Union and documents invited)

(c) Exchangeable software (documents to be prepared by the Office of the Union)

(d) Electronic application systems (document to be prepared by the Office of the Union)

8. Uniformity assessment

9. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)

10. Discussion on draft Test Guidelines (Subgroups)

11. Recommendations on draft Test Guidelines

12. Guidance for drafters of Test Guidelines

13. Date and place of the next session

14. Future program

15. Report on the session (if time permits)

16. Closing of the session

Visit

91. On the afternoon of May 23, 2012, the TWA visited the technical unit of GEVES in L'Anjouère. The TWA was welcomed by Mr. Georges Sicard, Head of the Variety Testing Department of GEVES, and received a presentation on the new unit opened in 2010. A copy of the presentation is provided in Annex III to this report. The TWA visited the greenhouse and field trials for oilseed rape and cereals, where explanations were provided on the conduction of trials and collection management.

92. The TWA adopted this report at the close of the session.

[Annex I follows]

ANNEX I

LIST OF PARTICIPANTS

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Friday, May 25, 2012 – Presentation of a web based TG template

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WIPO

Friday, May 25, 2012 – Presentation of the PLUTO database

Glenn MAC STRAVIC, Head, Brand Database Unit, Global Databases Service, Global Information Service

[Annex II follows]

ANNEX II

PRESENTATION MADE BY MRS. SYLVIE DUTARTRE, DIRECTOR OF THE GROUPE D'ÉTUDE ET DE CONTRÔLE DES VARIÉTÉS ET DES SEMENCES (GEVES)

GEVES

Variety and Seed Study and Control Group

Sylvie DUTARTRE

Manager of GEVES

What is GEVES ?

- A public Interest group
- Official and unique in France
- Partnership :
  - **INRA** (National Institute for Agronomic Research)
  - Ministry for Food, Agriculture and Fisheries
  - **GNIS** (The French Association for Seeds and Seedlings)

French seed background

France is the first European seed producer

Seed turnover (billions US$)

	World	42,00
1.	USA	12,00
2.	China	6,00
3.	**France**	**2,40**
4.	Brazil	2,00
5.	India	2,00

Seed exportation (millions US$)

1.	The Netherlands	1299
2.	USA	1178
3.	**France**	**1162**

2009

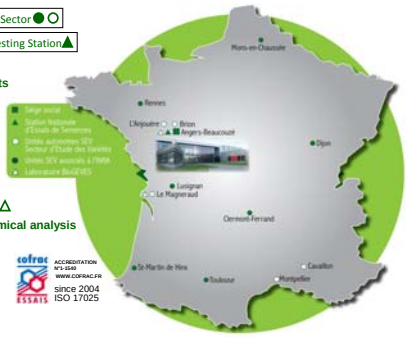
Missions




- Support for public policy guidance of plant genetic progress, GEVES conducts the compulsory studies to :
  - homologation of new varieties
  - legal protection of breeders rights
  - quality assessment of seeds and seedlings
- Methodological research on national and international level, management of genetic resources
- Coordination of the French seed laboratories network
- Training
- Seed phenotyping platform

GEVES organisation

- **2 technical departments :**
  - **SEV** : The Variety Testing Sector
  - **SNES** : The National Seed Testing Station
- **SEV:12 experimental units**
- **BioGEVES : a platform for molecular and biochemical analysis**
  - Variety Genotyping
  - GMOs detection
  - Biochemical analyses



cofrac ACCREDITATION N°1-1540 WWW.COFRAC.FR since 2004 ISO 17025

SNES Activities

Analysis
more than 87 000 analysis/year

Phenotyping platform

Monitoring of laboratories
110 authorised laboratories

75 employees
± 30 temporary

ISTA accredited laboratory n° FRDL 0200

Accréditation ISO 17025 COFRAC

Training of analysts

Methodological research
adaptation, optimization and validation of protocols

Groupe d'Étude et de contrôle des Variétés Et des Semences

GEVES Expert partner of authorities national and international

INRA = National Institute for Agricultural Research

CTPS = Permanent Technical Selection Committee

CPOV = Committee for Protection of New Varieties of Plants

SOC = Official service of Control and Certification

GNIS = The French Association for Seeds and Seedlings

CPVO = The Community Plant Variety Office

ISTA = The International Seed Testing Association

UPOV = The International Union for the Protection of New Varieties of Plants

Végépolys global competitiveness cluster in plants

Groupe d'Étude et de contrôle des Variétés Et des Semences

Overview

- **2 500** varieties studied per year
- **87 000** analysis per year
- **12 locations**
- **250** employees (including 170 of INRA)

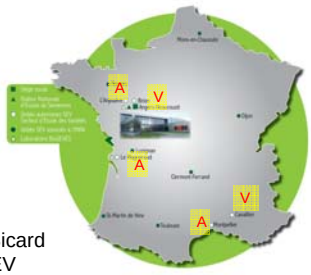
GEVES is the major support service for evaluation, identification and methodological research on genetic improvement and seed quality.

PRESENTATION MADE BY MR. GEORGES SICARD,
HEAD OF THE VARIETY TESTING DEPARTMENT OF GEVES

Groupe d'Étude et de contrôle des Variétés Et des Semences

Variety Testing Department (SEV) :

140 employees **350 ha on 5 main experimental units**



Georges Sicard
Head of SEV

Groupe d'Étude et de contrôle des Variétés Et des Semences

DUS (Distinctness, Uniformity and Stability)

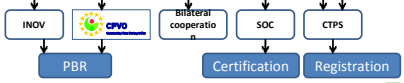
Field and greenhouse tests, following CPVO or UPOV protocols

VCUS (Value for Cultivation, Use & Sustainability)
- yield
- disease resistance
- quality criteria
- lower input



Tests and analysis done in **GEVES units**

Trials done in networks controlled by GEVES



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National Listing

- **Consultative Committee (CTPS):**
  Advice and proposals to the Ministry
  Definition of technical protocols and decision rules
- **GEVES in charge of implementation of protocols**

  -DUS: according to CPVO or UPOV protocols

  -VCUS: national protocols,regularly revised on yield, quality, biotic and abiotic factors
  recently more emphasis on plant health and environnement protection (sustainability)

National listing regulation: an important tool for new orientations of plant breeding

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Services and organisations in charge of the regulation and study of varieties and seeds

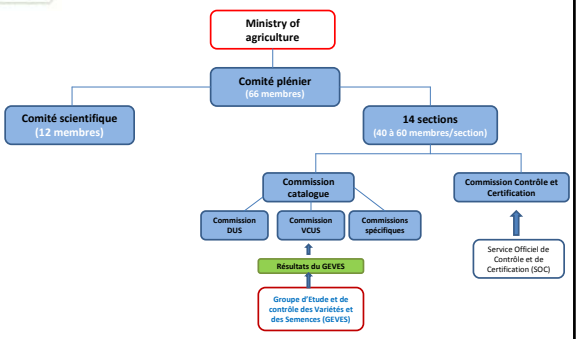
Ministry of Agriculture

INOV	CTPS	SOC
Plant Breeder's Rights	Technical Committee for Plant Breeding	Official Service for Seed and Variety control and certification

GEVES
Technical studies and analysis

Groupe d'Étude et de contrôle des Variétés Et des Semences

Organisation of CTPS: more than 600 experts



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GEVES & CPVO

- **DUS studies :**

  - about 450 applications each year, 2/3 of take over reports
    field crops, vegetable, fruit and ornemental species

- **Use of the denomination database and testing sofware**
  Submission of denominations, use of CPVO interpretation of tests

- **Other activities in relation with CPVO:**
  - elaboration and revision of protocols
  - expertise in different fields: quality entrustment,
  - e-filling of applications, illustration of technical activities.
  - Data platform exchange
  - R&D programs

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GEVES & other national offices

- **Bilateral agreements**
  - Mainly on forage, potato, maize,sunflower
- **Take-over reports**
- **Sharing of database**
- **Research programs in cooperation**

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Other SEV missions

- **Seed certification**
- **Training**
- **Methodological research**
- **Expertise**




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Some figures for 2011

> **1100 new applications** for National Listing

- >300 maize
- >200 cereals
- 150 rapeseed and sunflower
- 80 forage and turf
- 80 beet and chicory
- 190 vegetable

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Some figures for 2011

> **900 reports sent to other official bodies**

- >450 to CPVO
- >200 to other european offices
- >200 to non european countries

- (33% initial studies, 66% take-over reports)

all together (nat + bilateral) = 1800 new cultivars
12000 reference varieties sown each year

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Some figures for 2011

VCUS trials

- 2000 trials sown each year
- 2000 cultivars (controls and candidates)
- 110 000 plots
- A network with 60 partners (breeders, extension services, INRA, …)

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PRESENTATION MADE BY MS. VIRGINIE BERTOUX,
HEAD OF INSTANCE NATIONALE DES OBTENTIONS VÉGÉTALES (INOV)

PVR system in France
Presentation of INOV

41st TWA Meeting – Angers – May 2012

INOV
INSTANCE NATIONALE
DES OBTENTIONS VEGETALES

Virginie Bertoux, Head of INOV

Key Figures of PVR system in France

- 71 breeding companies located in France
- 17 000 farmers involved in seed production
- 1 400 titles enforced at national level
- 50 applications received from the beginning of the year 2012
- 2011 : French ratification of 91 UPOV Convention

V. BERTOUX, 21-05-2012

Presentation of INOV

- CPOV ⟶ INOV as for the 1st of March 2012
-

	CPOV	INOV
Location	Paris	Angers
Titles delivered by	Committee *	Head of INOV

- Self-sufficiency

* : proposal for granting

V. BERTOUX, 21-05-2012

Thanks a lot for your attention

and

Fruitful 41st TWA Meeting

GEVES

INOV
INSTANCE NATIONALE
DES OBTENTIONS VEGETALES

UPOV

V. BERTOUX, 21-05-2012

[Annex III follows]

ANNEX III

PRESENTATION MADE BY MR. GEORGES SICARD
ON THE OCCASION OF THE TECHNICAL VISIT OF ANJOUÉRE STATION OF GEVES

Groupe d'Étude et de contrôle des Variétés Et des Semences

Welcome to the Anjouère Station

Groupe d'Étude et de contrôle des Variétés Et des Semences

New GEVES site

Arrived from la Minière
(near Paris) in sept. 2009

Development of the station's land
(drainage, irrigation, road access to plots, soil improvement…)
Building work

Groupe d'Étude et de contrôle des Variétés Et des Semences

Our activities

DUS studies
VCU studies
Variety control
Disease resistance testing

Other activities :
Homogenization crops
Methodology

Groupe d'Étude et de contrôle des Variétés Et des Semences

Species Studied

Maize
Cereals (barley, oats, wheat, durum wheat, triticale…)
Cruciferes (oilseed rape, mustard, turnip, fodder cabbage…)
Sunflower
Soyabean
Fodder plants and turf grasses (Luzerne, Rye-Gras, Festuc, Clover…)
Fodder beet
Flax
Hemp
Protein crops (pea, field bean, lupine)
Potatoes

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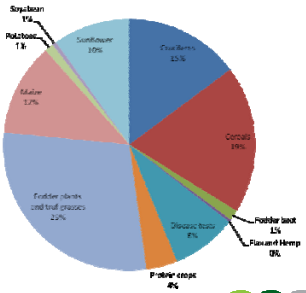
Some statistics on the site

Land area : 198 ha (189 ha crops, 6 ha woods, 3 ha buildings)
o 61.84 ha trials (data 2010)
11.73 ha VCU (26 species)
26.35 ha DUS (31 species)
5.83 ha Variety control (23 species)



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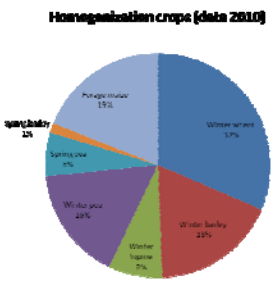
Some statistics on the site

o 116 ha homogenization crops



o 170 ha with irrigation possibility / 3 reservoirs (85 000 m3)

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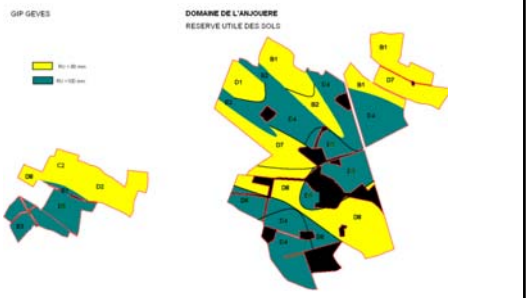
Shape of site and soil type

Loamy soil with a quite high proportion of clay
Mean water storage capicity = 100 mm



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Groupe d'Étude et de contrôle des Variétés Et des Semences

Facilities and equipments

Greenhouse : 800m²

Laboratory :

- 2 cold storage rooms
- 1 room specifically for treated seeds (extractor hoods…)
- 1 room for non treated seeds
- 1 storage room
- 1 operations room
- 1 waste storage room

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Groupe d'Étude et de contrôle des Variétés Et des Semences

Facilities and equipments

A hangar for large equipment
A pesticide storage building
A mechanic's workshop
An administratrive building (offices+ meeting room)

Groupe d'Étude et de contrôle des Variétés Et des Semences

Personnel

39 permanent workers
- 5 DUS teams
- 5 VCU teams
- 1 team for disease tests
- 1 team Domaine*
- 1 administrative team

Seasonal workers during busy periods (equivalent of 5-6 full-time workers)

* Soil preparation, sowing, irrigation, treatments, harvesting, maintenance of the site.

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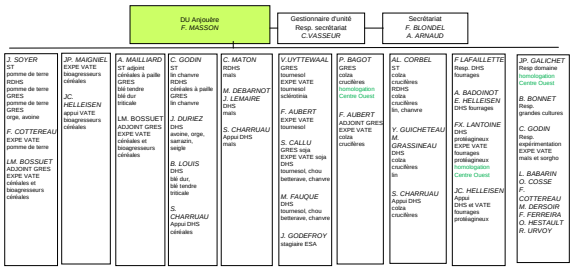
Groupe d'Étude et de contrôle des Variétés Et des Semences

Organigramme de l'unité



Version de Mars 2012

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Groupe d'Étude et de contrôle des Variétés Et des Semences

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Pilote processus : Patrick Bagot, Frédéric Lafaillette, Clarisse Maton

Correspondant qualité : Valérie Uyttewaal

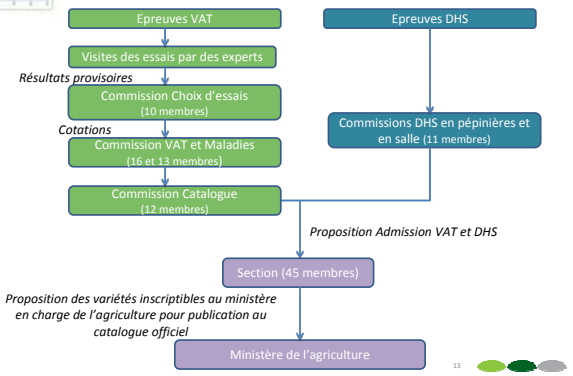
Auditeurs internes : Mélanie Debarnot, Julien Duriez, Julien Godefroy

Correspondant métrologie : François Xavier Lantoine

12

Groupe d'Étude et de contrôle des Variétés Et des Semences

Organisation d'une section



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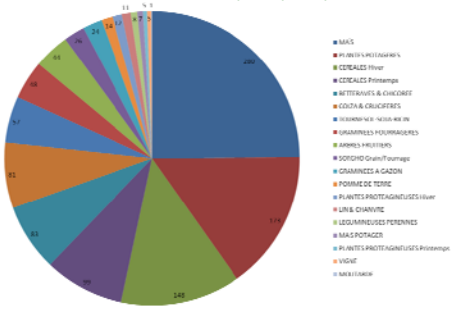
Groupe d'Étude et de contrôle des Variétés Et des Semences

Quelques chiffres

Nombre de dossiers déposés : 1165 demandes d'inscription en 2010/2011

Nombre de dossiers déposés par espèce



Groupe d'Étude et de contrôle des Variétés Et des Semences

Quelques chiffres

Coûts d'une inscription: http://geves.fr Accès aux professionnels / Tarifs et commandes / Inscription

Possibilité d'inscrire sur différentes listes :
A : Variétés dont les semences peuvent être commercialisées en France. Sous réserve de suivre 3 conditions :
- Être reconnue DHS.
- Être suffisamment performante par rapport à la gamme des variétés les plus utilisées et sans défaut majeur pour les utilisateurs.
- Être désignée par une dénomination conformément aux règles applicables.

B : Variétés dont les semences peuvent être multipliées en France en vue de leur exportation hors de l'Union Européenne. Sous réserve de suivre les conditions 1 et 3 énoncées précédemment.

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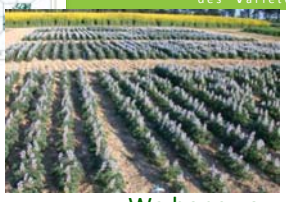
Groupe d'Étude et de contrôle des Variétés Et des Semences



We hope you enjoy your visit

[Annex IV follows]

ANNEX IV

LIST OF LEADING EXPERTS

DRAFT TEST GUIDELINES TO BE SUBMITTED
TO THE TECHNICAL COMMITTEE IN 2012

All requested information to be submitted to the Office of the Union

before July 6, 2012

Species	Basic Document	Leading expert(s)
*Common Vetch (*Vicia sativa* L.) (Revision)	TG/32/7(proj.3)	Mr. Luis Salaices (ES)
*Foxtail Millet (*Setaria italica* (L.) P. Beauv.)	TG/SETARIA(proj.6)	Mr. Xianmin Diao (CN)
*Sesame (*Sesamum indicum* L.)	TG/SESAME(proj.8)	Mr. Baruch Bar-Tel (IL) / Mr. Keun-Jin Choi (KR)

DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWA/42
(* indicates possible final draft Test Guidelines)

Guideline date for Subgroup draft to be circulated by Leading Expert: **March 11, 2013**
Guideline date for comments to Leading Expert by Subgroup: **April 8, 2013**

New draft to be submitted to the Office of the Union
before May 6, 2013

Species	Basic Document	Leading expert(s)	Interested experts (countries/organizations)
Adlay (*Coix ma-yuen* Roman.)	TG/COIX(proj.2)	Mr. Yoshiaki Takamatsu (JP)	CN, KR, ISF, Office
Adzuki/Red bean (*Vigna angularis*)	TG/ADZUK(proj.1)	Mr. Masayuki Uchida (JP)	CN, KR, ISF, Office
*Cassava (*Manihot esculenta* Crantz.)	TG/CASSAV(proj.3)	Mr. Simeon Kibet Kogo (KE), Mr. Luis Pacheco (BR)	TWV, CN, CO, TZ, ZA, ISF, Office
Elytrigia (*Elytrigia elongata* (Host) Nevski), (*Agropyron elongatum* (Host) P. Beauv.)	TG/ELYTR(proj.2)	Mr. Alberto Ballesteros (AR)	HU, PL, QZ, ESA, ISF, Office
*Groundnut (*Arachis* L.) (Revision)	TG/93/4(proj.2)	Mrs. Lynette Croukamp (ZA)	AR, AU, BG, BR, CN, JP, KE, KR, MX, ISF, Office
Kentucky Bluegrass (*Poa pratensis* L.) (Revision)	TG/33/7(proj.1)	Mrs. Beate Rücker (DE)	AU, BR, CZ, FI, GB, IT, NL, PL, QZ, RO, ZA, ESA, ISF, Office
Potato (*Solanum tuberosum* L.) (Revision)	TG/23/6	Mr. Rodolfo Caicedo (CO)	AT, BR, CA, CN, CZ, DE, ES, FR, GB, IT, JP, KE, KR, NL, PL, QZ, SK, ZA, ESA,ISF, Office
*Rhodesgrass (*Chloris gayana* Kunth)	TG/RHODES(proj.1)	Mr. Tanvir Hossain (AU)	AR, BR, KE, MX, NZ, ZA, ISF, Office
Scorpion Weed (*Phacelia tanacetifolia* Benth.)	TG/PHACE(proj.2)	Mrs. Bogna Kowalczyk (PL)	AT, CZ, DE, FR, QZ, RO, ISF, Office
Sorghum (*Sorghum bicolor* L.) (Revision)	TG/122/4(proj.1)	Mr. Luis Salaices (ES)	BR, CA, CL, CN, CZ, DE, FR, GB, HU, IT, JP, KE, QZ, RO, TZ, ZA, ESA, ISF, Office
*Urochloa *(Brachiaria)*	TG/UROCH (proj.6)	Mr. Fabrício Santana Santos (BR)	AU, CO, MX, ZA, ISF, Office
Wheat (*Triticum aestivum*) (Revision)	TG/3/12(proj.1)	Mr. Joël Guiard (FR)	AT, AU, BR, CA, CL, CN, CZ, DE, DK, ES, FI, GB, HR, HU, IT, JP, KE, KR, NL, PL, QZ, RO, SK, UA, ZA, ESA, ISF, Office

[End of Annex IV and of document]