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TWO/43/29 Rev.
ORIGINAL: English
DATE: January 18, 2010

UPOV

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES

Forty-Third Session
Cuernavaca, Morelos State, Mexico
September 20 to 24, 2010

REVISED REPORT

adopted by the
Technical Working Party for Ornamental Plants and Forest Trees

Opening of the Session

1. The Technical Working Party for Ornamental Plants and Forest Trees (TWO) held its forty-third session in Cuernavaca, Morelos State, Mexico, from September 20 to 24, 2010. The list of participants is reproduced in Annex I to this report.

2. The TWO was welcomed by Ms. Enriqueta Molina Macias, Director General of National Service of Seed Inspection and Certification (SNICS) and by Mr. Mariano Ruiz-Funes Macedo, Vice-Secretary of Agriculture (SAGARPA) and Mr. Bernardo Pastrana Gómez, Secretary of the Agricultural Department of the Government of the State of Morelos. The welcome address is provided in Annex II to this report. Mr. Luis Granada Carreto, the President of the Ornamental Growers Council of the State of Morelos was also present and kindly provided living material for the discussions during the TWO.

3. The session was opened by Mrs. Andrea Menne (Germany), Chairperson of the TWO, who welcomed the participants and, in particular, new participants to the TWO.

Adoption of the Agenda

4. The TWO adopted the agenda as reproduced in document TWO/43/1 Rev.

Short Reports on Developments in Plant Variety Protection

(a) Reports from Members and Observers

5. Ms. Enriqueta Molina Macias, Director General of National Service of Seed Inspection and Certification (SNICS), made a presentation on the plant variety protection system in Mexico, a copy of which is reproduced in Annex III to this document.

6. An expert from Australia reported that the number of applications received for the 2009/2010 financial year was 345, compared to 324 in the 2008/2009 financial year. In the same period 211 grants had been issued compared to 267 in the previous year. Although a detailed analysis had not yet been done, the lower number of grants was believed to be due in part to the cyclic nature of processing applications and the focus on other parts of the process when the demand on those increased. In addition, variations in details of an application could cause a statutory delay in granting by at least 6 months. Over the preceding 12 months around 50% of applications filed were for ornamental varieties. That number was slightly lower than in the previous year where the figure was around 56%. Over 12% of new applications were from species indigenous to Australia (40). Of those, 15 applications were for the first varieties of the genus or species and, often, published knowledge of the morphological variation of the species was sparse.

7. An expert from Brazil reported that legislation in Brazil was based on the 1978 Act, with a few provisions from the 1991 Act, such as essentially derived varieties. Much effort had been made over the last years to promote the revision of the current Law in order to strengthen breeders' rights to the level of 1991 Act. The Brazilian system was based on breeder testing which required constant dedication and was time consuming for the National Plant Variety Protection Office (SNPC) to provide qualification for the harmonization of the evaluation and descriptions, particularly for agricultural crops whose applications corresponded to almost 70% of the 2,000 lodged by the Office since 1998. Seminars, workshops and technical meetings were the most common method of training, however with the aim of reaching a larger number of professionals (examiners, lawyers, breeders, legal representatives, technical representatives, seed producers etc.), SNPC had organized a long distance course. Some 400 candidates had been selected to participate in that first edition, with a duration of 8 weeks started on September 18th. With regard to ornamentals, since there was no significant breeding in Brazil, all the DUS tests reports had been purchased from other authorities of UPOV members with experience on the candidate species. In 2009, SNPC received 237 applications, 83 of which were for ornamentals. Main species were Chrysanthemum, Gerbera and Rose. Seven new guidelines had been published for ornamentals, covering 29 protected genera at national level. Regulation of a DNA bank for vegetatively propagated varieties had been in force since December 2009 and the samples were now being requested from the titleholders

8. An expert from Canada reported that in 2009, 311 applications had been filed, 187 of which were for ornamental varieties. This was similar to the number of ornamental applications received in 2008. Thus far in 2010, they had received a total of 290 applications, of which 210 were for ornamental varieties. Calibrachoa, chrysanthemum, petunia, poinsettia and verbena made up the bulk of those new applications. To date, applications had been received for 226 ornamental genera, with the highest numbers of applications in Pelargonium (556), Impatiens (522), Rose (506), Chrysanthemum (461), Petunia (274), Calibrachoa (265), Verbena (222), Poinsettia (219) and Osteospermum (137). In May 2010, Canada hosted the

twelfth session of the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT)in Ottawa. In June, Ms. Ashley Balchin from the office attended the DUS internship program in Naktuinbouw for two weeks.

9. An expert from China reported that as of August 31, 2010, the Ministry of Agriculture had received a total of 7,246 PVP applications, for which 3,251 titles had been granted. For ornamental plants, 444 applications had been filed, accounting for 6% of the total applications. Chrysanthemum (33%) was the most protected species among ornamentals, followed by Anthurium (16%), Lily (15%), Gerbera (11%) and Pink (10%). New national testing guidelines for 80 genera and species were being developed. DNA identification standards for 14 genera and species, including 6 field crops, 6 vegetables, 1 ornamental (lily), and 1 fruit crop, were also being conducted.

10. An expert from Denmark reported that a total of 50 applications were under test in 2010. The number of applications was the same as in 2009. Some 96% of all applications were tested on behalf of the Community Plant Variety Office of the European Union (CPVO) and 4% for other UPOV members. Denmark had not received any national applications for ornamentals in 2010, as Danish breeders tended to apply for plant breeders' rights in the CPVO system. In 2010, he reported that 9 different species were under test, mainly Bougainvillea, Poinsettia, Schlumbergera and Rhipsalidopsis. Other species tested in 2010 were: Carex, Coprosma, Cotoneaster, Fargesia and Thuja.

11. The expert from the Community Plant Variety Office (CPVO) of the European Union reported that Mr. Ton Kwakkenbos, who had been attending the TWO since 1997, had retired at the beginning of 2010 and read out a few words on his behalf. The CPVO had recently recruited Mrs. Laetitia Denecheau in order to replace him. In 2009, the CPVO had received 2755 applications for Community plant variety rights (CPVR), a decrease of 8% from the previous year. The decrease was larger in the ornamental sector (- 13%) with 1,416 applications, which represented a share of 51% of all applications, the most important species remained Chrysanthemum and Rose. The decrease of 25% of the number of applications between 2007 and 2009 suggested that breeders might protect less or look for alternative ways of protection of their new varieties. Since the end of March 2010, the CPVO had been able to offer applicants the possibility of e-filing, which enabled the filing of an application for CPVR on-line via a secured site. For the time being that was possible for 20 species, among which were the most important ornamental species. Additional species would rapidly be added to the list. It was the intention of the CPVO to share the system with EU National authorities. A set of principles for this exchange had already been drafted and a pilot project was foreseen to start exchanging the system in the coming months with the Naktuinbouw (Netherlands) and the GEVES (France). At a later stage, the CPVO intended to share the system with non EU Members of UPOV. In co-operation with EU Member States authorities and UPOV, the CPVO had put in place a web-based centralized database of variety denominations. The Office had announced at the UPOV Technical Committee in 2010 that access to this database would be granted on request to all UPOV Member states. Since February 2010, the Office had offered the possibility to produce "advise" on the suitability of a proposed variety denomination on request from EU authorities if they so wished. The decision on the suitability of a denomination remains with the relevant authority. The CPVO intends to propose a project to its Administrative Council to keep a DNA sample as a standard procedure for rose varieties granted Community plant variety rights. If successful, this project might be extended to other species in future. An independent technical audit unit of the CPVO started in September 2008. Quality requirements to be fulfilled by examination offices

of the CPVO network have been set out and the first quality audits with the assistance of external technical audit experts started in Spring 2010.

12. The expert from France reported that GEVES, had become certified for the quality management, under NF EN ISO 9001:2008, for the following activities: study and control of new plant varieties in the framework of national and EU catalogues and PBR, biochemical and molecular analysis on varieties and seeds, progressively extending these procedures to its activities. The main GEVES field crop DUS unit had begun to run its DUS and VCU activities in the north of Angers –Loire valley. GEVES was conducting DUS ornamental tests for shrubs, perennial, aromatic and medicinal vegetatively propagated species and seed ornamental species such as Tagetes and pepper. Amongst those, the main species and genera were Hortensia and Lavandula. Some 30 applications a year were received. The two experimental locations concerned were the Angers Brion 49 unit and the Cavaillon 84 unit. Those units assured the maintenance of large and reliable DUS reference collections (field, glasshouse –*L. stoechas*-, and cold rooms for the seedlots). The other France national PBR applications were tested abroad through bilateral agreements (Denmark, Germany, Netherlands, United Kingdom). In the meantime, a part of the DUS GEVES examinations were conducted on the behalf of CPVO and European national authorities.

13. The expert from Germany reported that, in 2009, a total of 472 requests had been received for carrying out DUS tests for ornamental and woody varieties from some 60 different species. 82% of the requests had been received from the CPVO; 11% from other UPOV members and 7% were requests for domestic plant breeders' rights. The most important species tested in Germany were Rose, Pelargonium, Petunia, Calibrachoa, Osteospermum, Kalanchoe and New Guinea Impatiens.

14. An expert from Israel reported that during the years 2008 to 2010, the number of applications for ornamental plants had decreased from approximately 75 to 50 per year. However, the number of applications for fruit crops had increased from about 40 to 60 per year for most species. Most ornamental varieties were of foreign origin. The expert further explained that the Plant Breeding Rights Office was undergoing organizational changes.

15. An expert from Japan reported that a total of 24,484 Plant Breeders' Rights (PBR) applications had been received between 1978 and 2009 and that, in the same period, Plant Breeders' Rights had been granted to 18,743 varieties. In 2009, MAFF had received 1,138 PVP applications, a decrease of 18% compared with the previous year, of which 320 applications (28% of the total) had been filed by foreign applicants. With regard to ornamental plants and forest trees, since 1978, 19,442 applications had been filed, in the same period, for which PBRs had granted to 14,523. In 2009, Japan had received 878 applications for ornamentals and forest trees, which corresponded to 77 % of the total number of applications in the year. The number of applications for ornamental plant varieties had decreased 24% in comparison with the previous year. In 2009, 20 Test Guidelines had been developed in 2009 for new plant groups. In 2009, 18 national test guidelines, 12 of which were for ornamental plants, had been revised for harmonization with UPOV Test Guidelines or CPVO Technical Protocols. The expert provided a set of graphs which are reproduced in Annex IV to this document.

16. An expert from Mexico reported that, during the period 2009 until August 2010, there had been a total of 216 applications for plant breeders rights. Of this total, 17.6% were for ornamental plants. From the total applications for ornamentals, 46.8% had been granted. Applications had been mainly for rose followed by Alstroemeria, Bouganvillea,

Chrysantemum, Dahlia, Dianthus, Delphinium, Gerbera and Lilium. The applications had been from France, Netherlands, Mexico and the United States of America amongst others.

17. An expert from the Netherlands reported that a new IT system had been incorporated during the previous two years. The data migration from three existing systems into one new system, in particular, had caused a number of problems that had needed to be resolved. The system provided information and access to applicants about the status of their applications. The publication of photos and pictures would be incorporated at a later stage. In 2009, the total number of applications in ornamentals had decreased to 770 900 in 2008), but, in 2010, the total number of applications had seemed to stabilize. Work was ongoing on the maintenance of databases; and two DNA-databases were running (for potato and Phalaenopsis) that had proven to be very helpful in the management of variety collections. In 2010, Naktuinbouw passed ISO 9001 accreditation once again and also passed ISO 17020 accreditation on DUS testing of, among others, 15 main Ornamental species. The CPVO quality audit had been held in July 2010. In general, it was concluded that the key processes of our DUS work were well defined and documented, but some corrective actions were necessary. Those actions would be completed before November 1, 2010. The PVP training course had been attended by 23 participants from 18 countries. The expert was pleased to inform the TWO that, Mr. ArndJan van Wijk, even after his retirement, continued his co-ordination of the PVP training course. The internships at Naktuinbouw had been a success. In 2010, one colleague from Canada and two from Poland had worked for 3 weeks with the Naktuinbouw staff. Furthermore, there were PVP cooperation projects with China, Vietnam and Indonesia. In May 2010, Naktuinbouw had held a short training course on Rose and Dianthus in Turkey, on behalf of the CPVO. Naktuinbouw was reworking its image analysis module and had also set up a new website. All information about DUS testing at Naktuinbouw was available on that new website, (www.naktuinbouw.nl). There had been more requests for Variety Tracer in 2009 as compared with the previous years. Variety Tracer is a tool to provide information in infringement cases. Finally, Dutch DUS examiners had made and continued to make use of “Calibration Books”. Information on the interpretation of all characteristics contained in UPOV Test Guidelines was available for several important species. English versions of the “Calibration Books” would be made available at the end of 2010.

18. The expert from New Zealand reported that the Plant Variety Rights Office had noticed a rise in questions and queries regarding the practices of the Office and testing protocols. The majority of those came from foreign breeders and reference was made to what is carried out by other authorities. This suggested a greater awareness among breeders of variety protection processes and an increasing understanding of technical and administrative matters. The Plant Variety Rights Office and IP Australia had begun a program of work with the objective of greater cooperation and harmonization between the two authorities. A high level plan had been agreed and specific technical and administrative projects had been outlined. The number of ornamental applications had increased slightly, with the largest application numbers for Cordyline, Hydrangea, Phormium, Leptospermum and Rosa. Following the pattern of recent years, applications had been received for a number of new genera and species including Apodasmia, Dichroa, Parahebe and Uncinia. This also included intergeneric hybrids, such as Petchoa and Sanderosa. The identification and sourcing of varieties of common knowledge continued to provide problems and was compounded by the misnaming of varieties in catalogues and preference for commercial synonyms, rather than the variety denomination. The Plant Variety Rights Office had recently begun a project with the Allan Herbarium to establish a variety specimen for each protected ornamental variety.

19. An expert from the Republic of Korea reported that for Plant Breeders' Rights, since the implementation of PVP system in 1998, the total number of applications as of March 31, 2010, had reached 4,712, of which 2,988 varieties had been registered and 475 had been rejected. In 2009, 547 applications had been received, 52% of which were for ornamental varieties, mainly chrysanthemum, *coreopsis*, *dendrobium*, lily, rose and saxifrage, 12% of which were from foreign applicants. Plant variety protection rights for 399 varieties had been granted in 2009. The Republic of Korea now provided pictures of the candidate variety with the variety denomination in the official electronic gazette of KSVS website, which were submitted by applicants only for ornamental plants. The Seed Industry Law had been partially amended in May 2010, as a result of Article 38 of "publication of the application for public inspection" had been amended. That would result in shortening the average duration of the examination procedure by about 60 days. In respect of the amendment of the Law, its decree and regulations were also amended, accordingly. The 4th session of the international PVP training course had taken place over 2 weeks from July 1 to July 16, 2010, with fourteen participants from 7 countries, namely Guatemala, Kazakhstan, Kenya, Myanmar, Philippines and Tanzania. The 3rd East Asia PVP forum had been held in Seoul from April 28 to 30, 2010, hosted by KSVS and MIFAFF. 62 participants from 17 countries had attended the forum. An international seminar entitled "The use of plant variety protection system by public sector" had been held at the same place, in coordination with the EA-PVP forum. Nine speakers had been invited from various countries and international organizations, namely Australia, China, European Union, Japan, Republic of Korea, the United States of America , Asia and Pacific Seed Association (APSA), International Rice Research Institute (IRRI) and UPOV. Some 142 participants had attended the international seminar. The Korea Forest Seed & Variety Center (KFSV) has received 79 applications in the two years since it was founded.

20. The expert from South Africa reported that 364 taxa had been declared in terms of the Plant Breeder's Right Act, of which ornamentals constituted 54%. As of December 2009, a total of 2,251 varieties had valid plant breeder's rights in South Africa, of which 41% were for ornamental varieties. Foreign nationals owned around 60% of the total number of protected varieties, while local companies owned 25% and local institutions 15%. With regard to ornamentals, there had been an increase from 762 varieties with valid PBRs in 2008 to 73 in 2009. A total number of 161 ornamental varieties were granted PBR in 2009. Rose is still the ornamental with the highest number of varieties with PBRs, namely 410, followed by Chrysanthemum with 65 protected varieties and Impatiens with 37 protected varieties. Aloe is the indigenous genus with the highest number of applications, followed by Zantedeschia and Agapanthus.

21. The expert from the United Kingdom reported that some 350 ornamental applications were under test in 2010: 85% for the CPVO, 15% for the United Kingdom and other UPOV member States. The most important crop remained chrysanthemum. However they also had large trials of herbaceous perennials, pot plants and woody species. Two developments of note in 2010 were that NIAB had moved their trials to the new greenhouse unit, with the first chrysanthemum crop flowering in the summer and in March, the National Institute of Agricultural Botany (NIAB) had became the first Entrusted Examination Office of the CPVO, for ornamental crops.

22. An expert from the International Community of Breeders of Asexually Reproduced Ornamental and Fruit Plants (CIOPORA) reported that CIOPORA had established a working group on DUS, the aim of which was to analyse the current DUS system and already "Minimal Distances" between varieties had been identified as one important topic. In April

2010, CIOPORA had organized a "Breeders' Meeting" in Santa Barbara, California, where some 32 participants, mainly United States based fruit breeders, had discussed during one day matters related to the enforcement of plant patents and trademarks. Concerning outside activities, CIOPORA had approached the Government in Egypt with regard to the establishment of an effective PBR system and had urged Egypt not to apply the so-called "farmers' exception" on vegetatively reproduced ornamental and fruit varieties. CIOPORA had also commented on the Tanzanian Plant Breeders' Rights Law, which it considered was, in general, in compliance with the 1991 Act of the UPOV Convention, but felt could still be improved in order to grant better protection for their varieties. At UPOV's first ever Open Day, which was held in Geneva on June 5, 2010, CIOPORA had been represented by Mrs. Dominique Thevenon, AIGN®, and Mr. Bruno Etavard, Meilland International, who had introduced to the public the work of breeders of ornamental and fruit varieties. In March 2010, the expert reported that CIOPORA had organized a PBR Conference in Sevilla, Spain, the main topic of which was the co-existence of patents and plant breeders' rights. The next International PBR Conference would take place on April 13, 2011, in Rome, Italy, and would be combined with the 50th Anniversary celebrations of CIOPORA.

(b) Reports on Developments Within UPOV

23. The TWO received an oral report from the Office of the Union on the latest developments within UPOV, a copy of which is attached as Annex V to this document.

Molecular techniques:

24. The TWO considered documents TWO/43/2 and BMT/DUS Draft 3.

25. The TWO agreed that document TGP/15 should be developed separately, but in parallel, to document BMT/DUS on the basis that document BMT/DUS would provide a report on the development and consideration of all models within UPOV and that document TGP/15 would provide guidance for the use of those models that had received a positive assessment and for which accepted examples could be provided, i.e. Models "Characteristic-specific molecular markers" (Section 3.1.1) and "Combining phenotypic [characteristics] and molecular distances in the management of variety collections" (Section 3.1.2) for the time being.

26. With regard to document BMT/DUS Draft 3, Annex 2, the TWO agreed that paragraph 12 should be amended to read "[…] The situation in which different decisions on distinctness would result can only be investigated where varieties are rejected for lack of distinctness in the growing trial. This would require analysis of pairs of varieties rejected for lack of distinctness in the past or, if such material is unavailable, a system of "parallel running" of the two systems in real time on candidate varieties. […]"

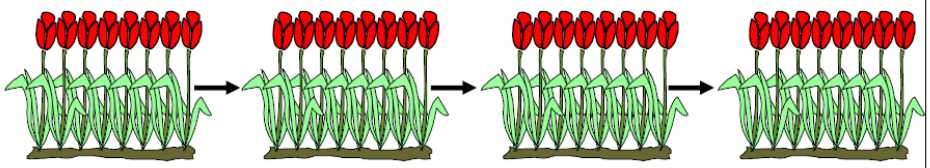
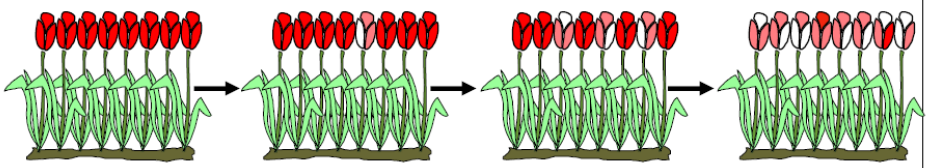
TGP Documents

27. The Office of the Union considered the TGP documents below on the basis of documents TWO/43/3.

(a) New TGP documents

TGP/11: Examining Stability

28. The TWO considered documents TGP/11/1 Draft 8 and TWO/43/3. The TWO made the following comments on document TGP/11/1 Draft 8:

1.	to add to the paragraph after the extract from the General Introduction with a text incorporating a reference to document TGP/10/1, Sections 4.2.2.4 and 4.2.3, in order to explain that differences in the expression of a characteristic that occur on a part of the plant are considered with regard to uniformity.
2.1.2	to emphasize the importance of the maintenance breeding effort in order to ensure that the variety will remain in conformity to the type and uniform.
2.1.2	to clarify that stability does not have to be examined by looking at the subsequent generation, i.e. stability could be examined by observation of material produced after several intervening cycles of propagation
2.1.2	to elaborate on why stability can be considered to be uniformity over time, with the aid of an illustration such as that provided in the DL-205 course as follows:
	Stable variety The relevant characteristics of the variety do not change through the generations.  Original material Generation 1 Generation 2 Generation N Variety not stable The relevant characteristics of the variety change through the generations. The plant grouping no longer retains the expression of the relevant characteristics of the original variety.  Original material Generation 1 Generation 2 Generation N
2.3	to explain that the examples only relate to situations where the examination authority has chosen to ascertain whether the stability criterion has been met by candidate varieties as a matter of routine and that no examples are provided for cases of doubt concerning the stability of a particular variety
2.3.4	to be deleted.
2.4	to be deleted.

(b) Revision of TGP Documents:

TGP/5 Experience and Cooperation in DUS Testing

29. The TWO agreed the following with regard to the proposals concerning a revision of document TGP/5 Section 10 "Notification of Additional Characteristics", as set out in document TWO/43/10:

	proposals for additional characteristics and states of expression notified to the Office of the Union by means of document TGP/5 Section 10, should be presented to the relevant Technical Working Party(ies) (TWP(s)) at the earliest opportunity. The characteristics would then, as appropriate, be posted on the password-restricted area of the UPOV website (*http://www.upov.int/restrict/en/index_drafters_kit.htm*) on the basis of comments made by the relevant TWP(s). In that regard, the TWO noted that, for example, it might not be useful to publish such characteristics or states of expression if the knowledge of such developments led to a revision or a partial revision of the Test Guidelines concerned.

TGP/7 Development of Test Guidelines

(i) Coverage of ornamental varieties in Test Guidelines

30. The TWO considered document TWO/43/11 and supported the Additional Standard Wording (ASW) proposed by the TWA, as follows:

> "In the case of [ornamental] [fruit] [industrial] [vegetable] [agricultural] [etc…] varieties, in particular, it may be necessary to use additional characteristics to those included in the Table of Characteristics in order to examine Distinctness, Uniformity and Stability."

(ii) Quantity of plant material required

31. The TWO considered document TWO/43/12.

32. The TWO agreed with the TWA proposal 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, the TWO 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 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)

(iii) Applications for varieties with low germination

33. The TWO considered document TWO/43/13 and noted that the Technical Working Party for Vegetables, at its forty-fourth session, held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010, had agreed that the matter did not need to be pursued further at that time.

(iv) Number of plants to be considered for distinctness

34. The TWO considered document TWO/43/14.

35. The TWO noted that the revision of document TGP/7 had indicated the need for clarification on the number of plants to be considered for distinctness. In that regard, the TWO agreed that the number of plants to be considered for distinctness should allow for off-type plants, within the accepted number, to be disregarded. However, it agreed that the wording of Chapter 4.1.4 should be amended to read "Unless otherwise indicated, all observations for the purposes of distinctness should be made on at least { x } plants or parts taken from each of { x } plants, disregarding any off-type plants.".

36. With regard to document TWO/43/14, the TWO agreed that Chapter 4.1.4 of the Test Guidelines related to the number of plants of candidate varieties and did not refer to reference varieties. It agreed that the number of plants of reference varieties was a separate matter.

(v) Selection of asterisked characteristics

37. The TWO considered document TWO/43/15.

38. The TWO agreed that the final sentence of GN 13.1 "Asterisked characteristics", Section 1.2, should be amended to read "The number of asterisked characteristics should, therefore, be determined by the characteristics which are required to achieve useful internationally harmonized variety descriptions.". The TWO also agreed that the guidance provided in document TGP/7, GN 13, on the selection of asterisked characteristics was appropriate and sufficient, and that it was only necessary to ensure that the guidance was followed in the development of Test Guidelines.

(vi) Indication of grouping characteristics

39. The TWO considered document TWO/43/16 and agreed that it would not be appropriate to include an indication of grouping characteristics in the Table of Characteristics in the (UPOV) Test Guidelines.

(vii) Guidance for method of observation

40. The TWO noted the explanations provided in document TWO/43/17.

(viii) Example varieties

41. The TWO considered document TWO/43/18.

42. The TWO noted that, for Test Guidelines for ornamental varieties, example varieties tended to be developed by the Leading Expert as representative of their own circumstances without particular emphasis on their suitability for all UPOV members. With regard to the development of regional sets of example varieties, the TWO noted that the relevant variety collections for ornamental varieties would not be determined by agro-climatic factors to the same extent as for agricultural crops and, therefore, the benefits of developing regional sets of example varieties would not be as significant. The TWO noted that the example varieties in the Test Guidelines were often no longer available on the market and that the Test Guidelines would need to be revised on a regular basis in order to ensure that the example varieties were readily available. Therefore, the TWO agreed that alternatives to example varieties, such as photographs, illustrations and calibration books should be used as far as possible. With regard to the sharing of calibration books and data on varieties, the TWO agreed that the information in the GENIE database on members of the Union with practical DUS experience for specific plant genera and species provided the best mechanism for DUS experts to obtain relevant information and guidance. The TWO also recalled the importance of cooperation in DUS examination and exchange of DUS reports in minimizing the need for members of the Union to conduct DUS testing for a wide range of genera and species.

(ix) Providing photographs with the Technical Questionnaire

43. The TWO considered document TWO/43/19.

44. The TWO agreed that the document should be structured into sections with titles concerning the various aspects (e.g. format, background etc.) and illustrative examples should be provided. It agreed that more emphasis should be placed on the importance of providing information on shapes and color patterns and less emphasis on color. It was further agreed that it should be emphasized that it was not a requirement to provide photographs of the candidate variety alongside the nominated similar variety and agreed that the requirement that the “candidate variety must always be on the left side of the photograph taken alongside the similar variety” (see paragraph 9 (v)) should be deleted. With regard to the proposal of the Technical Working Party on Automation and Computer Programs (TWC) to consider adding the possibility of using a standard color check chart, instead of the RHS Colour Chart (see paragraph 9 (vi)), the TWO clarified that the use of such a standard color check chart would not be instead of the RHS Colour Chart. The TWO also agreed that the document should refer to the applicant rather than the breeder.

(x) Standard references in the Technical Questionnaire

45. The TWO considered document TWO/43/8 and agreed that the standard references for the UPOV Model TQ and for Test Guidelines, as set out in Annexes III and IV of that document, should be introduced within the context of a future revision of document TGP/7 (document TGP/7/3).

46. The TWO also heard that a pilot scheme was being undertaken within the European Union on the adoption of the CPVO online application system by a few individual member States, with a view to making the CPVO online application system available to members of the Union in the future.

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

47. The TWO noted the information provided in documents TWO/43/20, TWO/43/24, TWO/43/25 and TWO/43/26.

48. With regard to document TWO/43/20, Annex I, New Section 2 - Data to be recorded, the TWO agreed that Andrea Menne should participate in the development of the section.

TGP/12: Guidance on Certain Physiological Characteristics

49. The TWO noted the information provided in document TWO/43/21 “Disease nomenclature and disease characteristics”.

TGP/14: Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents

50. The TWO considered documents TWO/43/22 and TWO/43/23.

51. With regard to the proposal in document TWO/43/22 that, if varieties have different shapes and different sizes within the same shape, only one absolute dimension (length or width) and the ratio should be used for DUS, the TWO shared the concerns of the TWV. In the first instance, it was noted that both length and width would need to be recorded in order to derive the ratio length/width. It also considered that it was often useful to have a separate description for length, width and ratio length/width. With regard to concerns about duplication of characteristics, it was noted that there was a suitable warning in relation to GAIA in document TGP/8/1 Draft 15, Part II, 1. The GAIA Methodology, Section 1.3.1 Weighting of characteristics. It did not anticipate problems for DUS examiners making decisions on DUS where the characteristics length, width and ratio length/width were considered separately and noted that there were correlations between other types of characteristics

52. With regard to characteristics for ratio length/width, the TWO confirmed its support for the use of meaningful states, such as compressed and elongated, but agreed that such characteristics should be reworded to correspond to those states.

53. The TWO agreed the following with regard to document TWO/43/23:

PART II: COLOR	
2.1	to be deleted
2.2	to add (e) Color Chart
2.3	to have the header “States of expression for color characteristics” and to provide an explanation for each of the aspects in 2.2 (a) to (e), in that order, on the basis of the information currently provided in 2.3
2.4	to be incorporated within new Section 2.3 “States of expression for color characteristics”
2.4.1.1.3	to delete text in brackets after “RHS 11D – light yellow orange”
PART III: COLOR DISTRIBUTION / PATTERN	
General	to structure the section on the basis of the approaches to describe colors and color patterns, as set out in the document, including in particular: Main color / secondary color etc. (surface area) Main color / over patterns Ground color / over color, flush or blush RHS Colour Chart order (“Lisbon” approach) Color of defined parts of an organ Variegation Pigments (anthocyanin, carotenoid) Conspicuousness Color change over time Number of colors (if retained) and to provide illustrative examples for each approach
3.1	to review whether to discourage the use of a characteristic for number of colors
4.2.3	to check whether these terms are useful for any of the approaches to be included in the document
4.5.2	to base this section on the Japanese scheme for determining color pattern terms (document TWO/43/23 Rev., Annex II), but to include only those patterns that are named and currently included in Section 4.5.2
4.6	to improve the illustration for “Tesselate”
4.8	to be deleted
4.11.4	to check whether to delete

Variety Denominations

53. The TWO noted the report on developments provided in document TWO/43/4.

Matters to be resolved concerning Test Guidelines adopted by the Technical Committee

54. The TWO considered document TWO/43/28 and agreed that the UPOV codes should be amended to follow the GRIN classification of *Oenothera*, i.e. including *Gaura*, and noted the consequence that *Gaura* would then be included in the denomination class for *Oenothera*.

55. The TWO agreed that there should continue to be separate Test Guidelines for "*Oenothera*" and "*Gaura*", but proposed that the TWV should consider whether the Test Guidelines for *Oenothera* (document TG/144/3) should be revised, in which case it would be appropriate to clarify the species of Oenothera that would be covered by the Test Guidelines.

Discussion on draft Test Guidelines

Agapanthus

56. The subgroup discussed document TG/AGAPA(proj.2), presented by Mr. Adriaan de Villiers (South Africa), and agreed the following:

1.	to delete "of the family Agapanthaceae"
4.1.4	to read "Unless otherwise indicated, all observations for the purposes of distinctness should be made on 5 plants or parts taken from each of 5 plants, disregarding any off-type plants."
4.3.2	to delete "seed or"
5.3 (c)	to be deleted
6.5	to read "(a) – (g)"
Table of Chars.	all characteristics to be indicated as "VG" unless otherwise indicated
Char. 1	to be indicated as QL and to delete state 2
Char. 2	to add (*)
Char. 3	to be indicated as MG and to add (+) and provide illustration
Chars. 4, 5	to be indicated as VG/MS
Char. 8	to be deleted
Char. 9	to read "Leaf: disappearance of variegation with development", to delete notes (a) and (b) and to add (+) with explanation of how to observe
Char. 10	to read "Leaf: green color of upper side (excluding variegation)", to add (*), to delete states 1 to 4 and to check notes (a), (b), (d)
Char. 11	to read "Leaf: color of variegation of upper side", to add (*), to check notes (a), (b), (c), to delete states 7 to 9 and example varieties to be provided for state 3 to 6
Char. 12	to be indicated as QL
Char. 13	to read "Inflorescence bract: length of tip relative to total length of bract
Char. 14	to add (*)
Char. 16	to be indicated as MG and to move to end of Table of Chars.
Char. 17	to be deleted
Chars. 18, 19	to be indicated as VG/MS
Char. 19	to add (*)
Char. 20	to add (*) and to add (+) and provide illustration
Char. 21	to add (*)
Char. 22	to be indicated as MG/MS and to add (+) with explanation

Char. 23	to read “Inflorescence: density of flowers”, example varieties to be provided by New Zealand and to add (+) and provide illustration
Char. 24	to be indicated as VG/MS, to add (*) and to add (+) and provide illustration
Char. 25	to add (*) and states 3 and 4 to read “narrow oblate” and “broad oblate”
Char. 27	to read “Flower bud: distribution of secondary color”, with state 1 to read “none” and to be moved after Char. 28
Char. 29	to be indicated as VG/MS
Char. 31	to provide illustration and to reverse order of state 1 and 2
Char. 33	to be indicated as MG
Chars. 34, 35	to be indicated as VG/MS and to add (*)
Char. 36	to be indicated as QN
Char. 37	to be indicated as VG/MS and to add (*)
Char. 38	to add (*)
Char. 39	to delete “(excluding varieties with complete overlapping of tepals)”
Char. 40	to add (*)
Char. 41	to add (*)
Char. 42	example variety to be provided for state 2 (if available)
Char. 44	to add (*)
Char. 45	to read “Flower: extrusion of stamens” and to add explanation that extrusion means the protrusion of the stamens in relation to the apex of tepal lobes
Char. 46	to add (*)
Char. 48	to add (*)
8.1 (b)	to delete “on the leaf”
8.1 (f)	to delete “on the flower bud”
8.1 (g)	to delete “on the flower and flower parts”
Ad. 31	to be provided
Ad. 34	to replace bracket with straight line indicating the length to be measured
Ad. 36, 37	to provide illustration of the 3 states of expression for Char. 36
TQ 1.1.2	to read “African lily, Agapanthus”
TQ 7.3	to read “A representative color image …”

Bougainvillea

57. The subgroup discussed document TG/BOUGA(proj.3), presented by Mr. Nik Hulse (Australia) and Mr. Lars Jacobsen (Denmark), and agreed the following:

Cover page	to add common name “Bugambilia” (Spanish)
3.3.2	to be moved to Chapter 8.1
5.3 (a)	to refer to Char. 14
5.3 (b)	to refer to Char. 24
Chars. 1, 3, 5, 7, 8, 11-17, 21-24, 27-34, 35-37	to be indicated as VG
Char. 4	to be indicated as VG/MS
Chars. 9, 10, 18, 19, 25, 26,	to be indicated as MG/MS
Char. 20	to be indicated as VG/MG
Char. 2	to be deleted
Char. 5	to be indicated as QL and to add note (b)
Char. 6	to be deleted

Char. 7	to add note (b) and to add (+) with explanation that the natural length of the thorn should be observed
Char. 14	to add (*)
Char. 15	state 4 to read “around midrib”
Char. 17	to have notes absent or weak (1); medium (2); strong (3)
Char. 22	to be indicated as QL and to add (+) and provide illustration
Char. 24	to read “Inflorescence: type of bract”
Char. 27	to have the states: narrow ovate (Elizabeth) (1); medium ovate (Alexandra) (2); broad ovate (Vera Deep Purple) (3); circular (Afterglow) (4)
Char. 28	to delete state 1
Char. 30	to be deleted
Char. 31	to be indicated as PQ and to read “Only varieties with bract type: single: Calyx lobes: color of upper side”
Char. 32	to read “Small young bract: main color of outer side”, to be indicated as PQ and to add (*)
Char. 33	to read “Young bract: main color of inner side (calyx lobe not open)” and to add (*)
Char. 34	to read “Young bract: main color of inner side (calyx lobe open)” and to add (*)
New 1 (after 34)	to read “Only varieties with bract type: double: Young outer bract: main color of inner side, with the state “RHS Colour Chart (indicate reference number)” and to be indicated as VG, PQ
New 2 (after 34)	to read “Only varieties with bract type: double: Young inner bract: main color of inner side, with the state “RHS Colour Chart (indicate reference number)” and to be indicated as VG, PQ
Char. 35	to read “Young bract: secondary color of inner side (calyx lobe open)”
Char. 36	to read “Young bract: tertiary color of inner side (calyx lobe open)”
Char. 37	to read “Bract: main color of inner side (calyx lobe wilted)”
8.1	to read: “The optimum stage of development for the assessment of the characteristics is at the time of opening of one flower in three inflorescences. In the case of double bract varieties, observations should be made when a third of the bracts are fully developed and open. Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below: (a) observations should be made on the upper third of the main shoot. (b) observations should be made on the middle third of the main shoot. (c) observations should be made on a developed leaf from the middle third of the main shoot.”
Ad. 11	grid frame to be added
Ad. 12	state 4 to be deleted
Ad. 15	to indicate the secondary colors in each of the states
Ad. 16	to become Ad. 13, 14, 16
Ad. 27	to be provided
Ad. 28	to be completed
Ad. 32 etc.	to replace labels for Stage 1 etc., with description of stage
9.	to be provided

TQ 5.1	to be indicated as Char. 14
TQ 5.2	to be indicated as Char. 24
TQ 5.3	to be indicated as Char. 34
TQ 6	to read “Example / Leaf blade: secondary color / none / white

Camellia L.

58. The subgroup discussed document TG/CAMEL(proj.2), presented by Mr. Jiyuan Li (China) and Sui Nui (China), and agreed the following:

3.3.2	to be deleted
4.1.4	to read “Unless otherwise indicated, all observations for the purposes of distinctness should be made on 9 plants or parts taken from each of9 plants, disregarding any off-type plants.”
5.3	to have Chars. 2, 10, 25, 31, 32, 33, 43, 46, 48 and 54
6.4.2	to read “…*Camellia changii* (*Camellia azalea*): Chun Jiang ZHi Xia…”
1.	to be deleted
Char. 3	to be indicated as VG
Char. 4	to read “Plant: density of foliage”
Char. 6	to be indicated as QN and to add (*)
Char. 7	to add (*)
Char. 9	state 2 to read “perpendicular” and to add (*)
Char. 12	to reverse the order of states and example varieties to be provided
Char. 13	state 4 to read “cordate”
Char. 14	to have the states: retuse (1); rounded (2); short acuminate (3); medium acuminate (4); long acuminate (5); divided (6) and example varieties to be provided
Char. 15	to be deleted
Char. 16	to add (*)
Char. 18	to have the states: weak (1); medium (2); strong (3) and to add (*)
Char. 20	to add (*)
Char. 22	to add (*)
Char. 23	to add (*)
Char. 25	to be indicated as VG
Char. 27	to add (*)
Char. 28	to have the states: yellow (1); yellowish green (2); brown (3); purple red (4) and to add (*)
Char. 30	to add (*)
Char. 31	(+) and explanation to be deleted: example varieties to be provided
Char. 33	to read “Flower: presence of petaloids” and to add (*)
Char. 34	to have notes 3, 5, 7 and to add (*)
Char. 35	to have the states: some stamens petaloid (1); all stamens petaloid (2); all stamens petaloid and petaloid pistil (3)
Char. 37	to add (*)
Char. 39	state 3 to read “recurved” and to add (*)
Char. 41	to add (*)
Char. 42	to add (+) and provide illustration
Chars. 43, 48	to provide explanation of main and secondary color

Char. 44	to read “Petal: intensity shading of main color (excluding variegation)” and state 1 to read “evenly shaded”
Char. 45	to be deleted
Char. 46	to be indicated as VG
Char. 47	to be deleted
Char. 48	to read “Petal: pattern of the secondary color” and to add states “striped and blotched” and “basal zone”
Char. 50	to be indicated as MG
Char. 52	to add (*)
Char. 54	to have the states: very early (1) (= summer) – very late (9) (=late spring)
8.1	to read: (a) Observations should be made on buds just before they sprout in the spring. (b) Observations should be made on young shoots. (c) Observations should be made on mature leaves in the middle third of the shoot in summer or autumn. (d) Observations should be made on the sepals just before flowering. (e) Observations should be made on 5 fully open and regular flowers. (f) Observations should be made on regular petals in first outer row in blossoming season. (g) Flower: diagram (to be provided)
Ad. 9	illustration for state 2 to be improved
Ad. 25	to be improved
Ad. 27	to provide illustration in form of grid to show differences – it is the same variation as Char. 12 (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 23, Section 2.).
Ad. 31	to be deleted
Ad. 40	to be presented in form of grid (see TGP/14/1 Draft 9: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 19, Section 2.1.3 and page 28)
Ad. 41	to be improved
Ad. 52	notes to be corrected
TQ header	text concerning hybrids to be deleted
TQ 1	to replace 1.2 etc with blank box to be completed for species or hybrid
TQ 5	to add Chars. 33, 46
TQ 5.3 (4)	to be deleted
TQ 5.4 (8)	to be deleted
TQ 5.9 (40)	to be deleted
TQ 5.10	to add option for RHS Colour Chart
TQ 5.11 (48)	to be deleted
TQ 6	example to be provided
TQ 9.3	to be deleted

Canna

59. The subgroup discussed document TG/CANNA(proj.5), presented by Mrs. Françoise Jourdan (France) and agreed the following:

Cover page	to delete common names “Indian Shot” (English) and “Achira” (Spanish)
3.2.3	wording to be updated according to document TGP/7/2
4.1.4	to read “Unless otherwise indicated, all observations for the purposes of distinctness should be made on 7 plants or parts taken from each of 7 plants, disregarding any off-type plants.”
5.3 (c)	to be corrected according to Table of Chars.
6.5	to read “(a) See Explanations on the Table of Characteristics in Chapter 8.1”
Chars. 2, 5-12, 15-22	to be indicated as VG
Chars. 1, 3, 4, 13, 23	to be indicated as MG
Char. 2	to keep 3 states
Char. 5	to delete (*)
Char. 9	to delete state 3 (marginal) and example varieties to be provided for states “diffused” and “blotched” by Mexico to Leading Expert
Chars. 10, 11	to delete note (a)
Char. 13	example variety to be provided for state 2 by Mexico to Leading Expert
Char. 14	to be deleted
Char. 16	example variety to be provided for state 3
Char. 17	to add note (a)
Char. 18	to read “Staminode: base color”
Char. 19	to add (+) and provide illustration
Char. 20	to add (+) and provide illustration
Char. 21	to add (+) and provide illustration
Char. 22	to add (+) and provide illustration and to amend state 1 to read “same as base color”
Char. 23	to be indicated as QN
8.1	to delete “/Terminologie générale”
Ad. 9	photographs to be provided for states 2 and 4 by Mexico to Leading Expert
Ad. 13	to delete “FR proposal”
Ad. 18	to read “The base color is the color with the same color as the underside of the staminode”
Ad. 23	to read “The time of beginning of flowering is when the first flower has fully opened on 10% of plants.”
TQ 1	to delete “total”
TQ 5.3	to be amended according to Table of Chars.
TQ 7.3.2	to read “A representative color image of the variety should accompany the Technical Questionnaire.”

Cosmos

60. The subgroup discussed document TG/COSMOS(proj.2), presented by Mr. Takayuki Mikuni (Japan) and agreed the following:

Cover page	Alternative Names: Spanish to read: Mirasol, Cosmos
1.	to delete: "of the family *Asteraceae (Compositae)*"
4.1.4.2	to indicate: " … 9 plants or parts taken from each of 9 plants …"
4.2.2	to check whether to correct to "2 off-types are allowed" and to check different types: open-pollinated or F1 Hybrid and to use standard wording
5.3	to check spelling of (d) "collerette"
Char. 1	to be indicated as VG/MS
New Char.	to read: "Growth: habit" and (+) to be added with an illustration provided by Mexico
Char. 2	to be indicated as VG and (+) to be added with an illustration
Char. 5	to decide on terms use for Leaf: type during technical visit on Wednesday September 22 at CONAPLOR
Char. 6	to read: "Leaf: number of lobes" and to be indicated as VG
New Char. before Char. 11	to read: Flower head: attitude with the states: upwards (1); outwards (2); downwards (3) and (+) to be added with an illustration to be provided by MX and to be indicated as QN and VG
Char. 11	to read: "Flower head: number of ray florets" with the states: few (3); medium (5); many (7) and to be indicated as QN
Char. 14	to be indicated as MS/VG
New Char. before Char. 15	to read: "Flower head: disc diameter" with the states: small (3); medium (5); large (7) and to be indicated as VG/MS
Char. 15	to delete: "(including anemone type)" and to indicate how to observe for types with collarette segments and to be indicated as MS/VG
Char. 17	to read: "Ray floret: type" and to check the states: ligulate (1); ligulate and tubular (2); tubular (3) and to be indicated as PQ
New Char. before Char. 18	to read: "Ray floret: longitudinal axis" with the states: incurved (1); straight (2); reflex (3)
New Char. before Char. 18	to read: "Ray floret: degree of curvature" with the states: weak (1); medium (2); strong (3)
New Char. before Char. 18	to read: "Ray floret: curved part of axis" with the states: tip (1); distal quarter (2); distal half (3); distal three quarters (4); entire axis (5)
Char. 18	to be indicated as MS/VG
Char. 19	to be indicated as MS/VG
Char. 20	to reverse the order or states and to be indicated as MS/VG
Char. 21	to read: "Ray floret: depth of incisions of apex" and to add the state: absent or very shallow (1)
Char. 24	state (1) to read: "basal zone"
Char. 25	to read: "Ray floret: main color of outer side" and Mexico to provide photos illustrating that the color is different between inner and outer side
Char. 26	to delete "(including anemone type) and (+) to be added with an explanation of disc

8.1	(e) to be deleted and to replace with Ad. 26
Ad. 7,8	to delete duplicated grid
Ad. 10	to read: “Leaf: width of terminal leaf”
Ad. 13	to delete “9 present”
Ad. 15	b to read: size of disc
Ad. 17	to check whether to illustrate both types and to consider replacing photograph with illustration (photograph not very clear)
Ad. 24	to read: “Ray floret: distribution of secondary color of inner side with state (1): basal zone and to change pictures for states (1) and (3)
Ad. 26	to read: The color of disc should be observed at anther dehiscence in daisy type, at full flower in anemone type.
TQ 1.2	to indicate species
TQ 4.2.1	(c) Hybrid – to use standard wording TGP/7/2
TQ 9.3	to delete

Dianella

61. The subgroup discussed document TG/DIANE(proj.1), presented by Mr. Nik Hulse (Australia) and agreed the following:

Cover page	to insert common names
4.1.4	to reduce number of plants to 9
5.3	to delete (b) and (c)
Char. 3	to be indicated as QN
Char. 4	to add (+) with illustration on the internode and to be indicated as VG/MS
Char. 5	to be indicated as QN
Char. 7	to have note (b) and to be indicated as QN and VG/MS
Char. 8	to be indicated as VG/MS
Char. 9	to read: “Leaf: glaucosity of adaxial side” and to complete example variety for very strong (9)
Char. 10	to check example varieties
Char. 11	to move part in brackets to Ad. in Chapter 8 and to be indicated as VG and to add (*)
Char. 12	to read: “Leaf: main color of adaxial side” and to to move part in brackets to Ad. in Chapter 8
Char. 13	to read: “Leaf: main color of abaxial side” and to to move part in brackets to Ad. in Chapter 8
Char. 14	to read “Leaf: color of variegation” and to add (*)
Char. 15	to read: „Leaf: distribution of variegation” and to be indicated as VG and have note (b) and to reverse notes (2) and (3)
Char. 16	to delete state (4) “lorate” and to have note (b) and to be indicated as PQ
Char. 17	to be indicated as QN
Char. 18	to be indicated as QN
Char. 20	to be indicated as QN and to check if possible to add (+) with explanation of what is meant by prominence
Char. 21	to check whether QL and to check if necessary to specify adaxial or abaxial side and, if it is QL, to add (*)
Char. 22	to read: “Leaf midrib: spines on abaxial side”

Char. 23	to read: “Leaf midrib: prominence of spines on abaxial side” and to add (+) with explanation of what is meant by prominence
Char. 24	to correct spelling to “coloration”
Char. 25	to correct spelling to “coloration”
Char. 26	to use RHS Colour Chart
Char. 27	to be completed
Char. 28	and to add (+) and provide illustration and to be indicated as VG/MS
Char. 29	to read: “Inflorescence: density of flowers” and to be indicated as VG
Char. 30	to add (+) with explanation and to be indicated as VG
Char. 31	to be indicated as QN
Char. 32	to be indicated as QN and VG/MS
Char. 34	to propose color groups and provide example varieties
Char. 35	to add (+) with explanation of how to determine the stage to observe
Char. 36	to add (+) with explanation of how to determine the stage to observe
Char. 37	to check whether QL
8.1(a)	to amend the wording for consistency with allocated characteristics
8.1(b)	to check whether to add to other leaf characteristics in the Table of Chars. (Char.
8.1(c)	to read: “All observations on the inflorescence, flower and fruit should be made on the main inflorescence.”
Ad. 16	to provide illustration in form of grid to show elements of variation, e.g. ratio length/width, position of broadest part etc. (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.).
Ad. 35	to be provided
Ad. 36	to be provided
TQ 5.2	to be deleted
TQ 5.3	to be deleted
5.4	to be updated as in Table of Chars. accordingly
TQ 9.3	to be deleted

Dianthus (Revision)

62. The subgroup discussed document TG/25/9(proj.3), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

Cover page	to replace CARNATION with DIANTHUS
4.1.4	the minimum number of plants material to be 10 plants
4.1.5	to keep standard wording on Method of Observation
5.2	to delete (a) grouping characteristics
Chapter 7 (general)	to add example varieties for all characteristics
Char. 1	to indicate MG
New Char.	to consider new Char. to read: “Growth: habit”
Char. 2	(+) to be added with an illustration and to be indicated as VG
Char. 3	to check whether to be indicated as QL and to be indicated as MG
Char. 4	wording to be clarified and to add (+) and provide illustration and to be indicated as VG

Char. 5	to check Char. against Chrysanthemum TG – Inflorescence – to check terms and move before Char. 7 and to be indicated as VG
Char. 6	to have the states: solitary (1); one-flowered and clustered (2); clustered (3) and to be indicated as VG
Chars. 7 to 10	Chars. 7 to 10 to read: Stem (excluding laterals):.. and to delete "main"
Char. 7	(+) to be added with an explanation and to be indicated as MG
Char. 10	to be indicated as VG
Char. 8	(+) to be added with an explanation and to be indicated as MG
Char. 9	state (3) to read "flabellate" and (+) to be added with an illustration and to be indicated as VG
Char. 10	to be indicated as VG
Char. 11	to have the states: linear (1); ovate (2); elliptic (3); obovate (4) and to be indicated as VG
Char. 12	to be indicated as MG
Char. 13	to be indicated as MG
Char. 14	state 1 to read: "absent or very weakly recurved" and state 5 to read: "very strongly recurved" to be indicated as QN and VG
Char. 15	state 1 to read: "absent or very weakly concave" and (+) to be added with an illustration and to be indicated as QN and VG
Char. 16	to have the states: yellow green (1); medium green (2); dark green (3) and to be indicated as VG
Char. 17	to be indicated as VG
Char. 19	to be described in 2-dimensional shape and to add (+) and provide illustration in form of grid (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.) – see example for Ad. 11 and to be indicated as VG
Char. 20	to be indicated as VG
Char. 21	to be indicated as MG
Char. 22	to check whether QL and (+) to be added with an illustration and to be indicated as VG
Char. 23	to be indicated as VG
Char. 24	to read: "Epicalyx: length of outer lobes" with the states: absent or very short (1); short (2); medium (3); long (4) with the notes 1, 2, 3, 4 and to be indicated as VG
Char. 25	to be indicated as VG
Char. 26	to read: "Epicalyx: length of tip of inner lobes" with the states: absent or very short (1); short (2); medium (3); long (4) with the notes 1, 2, 3, 4 and to be indicated as VG
Char. 27	to provide more example varieties and to be indicated as VG
Char. 28	to be indicated as VG
Char. 29	to check term "angled (3)" and to be indicated as VG
Char. 30	to be deleted
Char. 31	to have the states: none (1); edge of lope (2); whole lobe (3); whole calyx (4) and to be indicated as VG

Echinacea

63. The subgroup discussed document TG/ECNCE(proj.2), presented by Ms. Liz Scott (United Kingdom) and agreed the following:

General	to consider comments on TC/ECNCE(proj.1), made by the Technical Working Party for Vegetables (TWV) – see document TVV/44/34 “Report”, paragraph 63
Cover page	to add common names Échinacée (F), Igelkopf (G)
1	to delete reference to family
4.1.4	to reduce the number of plants to 9
4.1.4.2	to reduce the number of plants to 20
5.3 (b)	to read: Ray floret: main color of inner side
Char. 1	to have example varieties: Kim’s Mophead (3); Green Jewel (5); Catherina (7)
Char. 2	to read: “Plant: floriferousness” with the states: weak (3); medium (5); strong (7) and example varieties: Tiki Torch (3); Green Jewel (5); Mistral (7)
Char. 3	to have example varieties: Hot Summer (3); Mistral (7)
Char. 4	to have example varieties: Green Jewel (1); Catherina (2); Merlot (3); Fatal Attraction (4)
Char. 5	to have example varieties: Hot Papaya (1); White Lustre (3); Green Jewel (5); Catherina (7)
Char. 6	to read: “Petiole length”
Char. 7	to read: “Leaf: length of blade” and to delete (+) and explanation
Chars. 7 to 9	to be indicated as VG
Char. 9	to review the names of the states to find terms which are appropriate for the genus
Char. 10	to read: “…position of broadest part” and to have the states: at middle or slightly towards base (1); moderately towards base (2); strongly towards base (3) and have example varieties: Mac n’Cheese (1); Tomato Soup (2); Milkshake (3)
Char. 11	to read: “Leaf: intensity of green color” and to have example varieties: Tomato Soup (3); Merlot (5); Fatal Attraction (7)
Char. 12	to have example varieties: Tomato Soup (1); Prairie Frost (9)
Char. 13	to have example variety: Prairie Frost (2)
Char. 14	to have example varieties: Prairie Frost (1); Sparkler (3)
Char. 16	to delete
Char. 17	to have example varieties: Hot Papaya (1); Tomato Soup (3); Catherina (7)
Char. 18	to have example varieties: Hot Papaya (1); Catherina (5); Avalanche (7)
Char. 19	to check whether correlated with Char. 4 and to have example varieties: Green Jewel (1); Catherina (2); Fatal Attraction (4)
Char. 20	to have example varieties: Tomato Soup (3); Green Jewel (7)
Char. 21	to be indicated as VG/MS and to have example varieties: Kim’s Mophead (3); Green Jewel (5); Tomato Soup (7)
Char. 22	to be indicated as VG/MS and to have example varieties: Lilliput (3); Hot Papaya (7)
Char. 23	to be indicated as VG/MS and to have example varieties: Tiki Torch (3); Milkshake (5); Fatal Attraction (7)
Char. 24	to have example varieties: Lilliput (1); Fatal Attraction (5); Mount Hood (7); Hot Papaya (9)
Char. 25	to delete Char. 25 and to replace by 3 new Chars.

New Char.	to read: “Flower head: number of ligulate ray florets” with the states: none; few; medium; many and to add (+) and provide illustration and explanation of different types
New Char.	to read: “Flower head: number of spatulate ray florets” with the states: none; few; medium; many and to add (+) and provide illustration and explanation of different types
	to read: “Flower head: number of quilled ray florets” with the states: none; few; medium; many and to add (+) and provide illustration and explanation of different types
Char. 26	to delete
Char. 27	to delete
Char. 28	to be indicated as VG/MS and have example varieties: Meditation (3); Tomato Soup (7)
Char. 29	to be indicated as VG/MS and have example varieties: Vintage Wine (3); Tomato Soup (5); Milkshake (7)
Char. 30	to be indicated as VG/MS and have example varieties: Meditation (3)
Char. 31	to consider whether this Char. is needed
Char. 32	to read: “Ray floret: main color” and to add explanation (check whether need to add location – currently we only know basal zone)
New Char.	to read: “Ray floret: secondary color of inner side”: RHS Colour Chart
Char. 33	to read: “Ray floret: curvature” and to have example varieties: Green Jewel (1); Vintage Wine (2); Tomato Soup (3) – request Office to elaborate proposal to combine Char. 33 with Char. 34 or 35 and to read “Ray floret: curvature” and Char. 34 or 35 to make no reference to non-straight types (not necessary)
Char. 36	to consider combining Chars. 36, 37 - to be combined, with state 1 to read “absent” – to be indicated as PQ and to have example varieties: Mistral (1) very weak; Hot Papaya (2) weak; Strawberry Shortcake (3) moderate; [no example variety yet] (4) strong
Char. 38	to have example varieties: Tomato Soup (3); Green Jewel (7)
Char. 39	to read: “Ray floret: shape in cross section” and to provide explanation to observe at midpoint in Chapter 8.2 (Ad. 39) and to have example varieties: Vintage Wine (1); Green Jewel (3); Tomato Soup (5)
Char. 40	to have example varieties: Purity (1); Tiki Torch (2); Green Jewel (3)
Char. 41	to check state (1) and to have example varieties: Hot Summer (3); Green Jewel (5)
Char. 42	to have example varieties: Magnus (1); Hot Papaya (2)
Chars. 43, 45, 47…68	to read: Only varieties with disc type: daisy: …”
Char. 43	to be indicated as VG/MS and to have example varieties: Mistral (3); Fatal Attraction (7)
Char. 44, 46, 48 …68	to be indicated as VG/MS
Chars. 44, 46, 48 …68	to read: “Only varieties with disc type: anemone …”
Char. 44	to have example varieties: Pink Double Delight (3); Razzamatazz (5); Hot Papaya (7)
Char. 45	to have example varieties: Fatal Attraction (3); After Midnight (7)
Char. 46	to have example varieties: Meringue (3); Catherina (7)

Char. 47	to check whether to use meaningful states (check order compared to current characteristic), e.g. very elongated (1); moderately elongated (3); medium (5); moderately compressed (7); very compressed (9)
Char. 49	to have example varieties: Tomato Soup (3); Green Jewel (5); Milkshake (7)
Char. 50	to delete state (2) white and to change state (6) to “purple brown” and to have example varieties: Green Jewel (1); Mistral (4); After Midnight (6); Tomato Soup (7)
Char. 52	to consider how to describe the moment when this should be recorded (e.g. on the expanded cone) and to delete state (2) “white” and to change state (6) to “red brown” and to have example varieties: Green Jewel (1); Harvest Moon (3); Mistral (4); After Midnight (6); Tomato Soup (7)
New Char.	to read: “Daisy type only: Disc: color of paleae” with the groups: green (1); yellow (2); orange(3); red orange (4); red brown (5); purple brown (6): and illustration and explanation and to review whether Current Char. 52 and Char. 52a are both necessary
Char. 54	to have example varieties: Magnus (1); Mount Hood (9)
Char. 55	to have example varieties: Mount Hood (3); Double Decker (5); Pink Poodle (7)
Char. 56	to have example varieties: Milkshake (3); Pink Sorbet (5); Hot Papaya (7)
Char. 57	to check whether correlated and to have example varieties: Milkshake (3); Hot Papaya (7)
Char. 58	to read: “Disc floret: curvature” and to have example varieties: Milkshake (1); Pink Sorbet (2); Hot Papaya (3) and to check for different example varieties
Char. 59	to have example varieties: Hot Papaya (3); Milkshake (7)
Char. 60	to have example varieties: Pink Sorbet (5); Hot Papaya (7)
Ad. 2	update as per Char. 2
Ad. 7	to delete
Ad. 22	to expand illustration on how to observe for 3 types
Ad. 43, 45	to provide separately from Ad. 21, 22
Ad. 39	to indicate inner side
Ad. 43, 46	new illustration separated from Ad. 42 main flower head to show spikes
Ad. 52a	to add photo to illustrate paleae
Ad. 59	to replace with drawing to illustrate states
TQ 1.3	to use standard layout for species
TQ 5.2	to read: “Ray floret: main color of inner side” and to have example varieties: Green Jewel (1); Purity (2); Harvest Moon (3); Tiki Torch (4); Tomato Soup (5); Meditation (6); Magnus, Catherina (7)
New Char. to add to TQ	to read: “Ray floret: secondary color of inner side with same states as for Char. 32 and to have Green Envy as example variety (6)
TQ 5.3 (42)	to have example varieties: Magnus (1); Hot Papaya (2)
TQ 5.3 (52)	to have example variety as in body of document
TQ 5.3 (53)	to have example varieties: Meringue (2); Pineapple Sundae (3); Marmalade (4); Hot Papaya (5); Pink Double Delight (6); Catherina (7)

Eucalyptus

64. The subgroup discussed document TG/EUCAL(proj.5), presented by Mrs. Daniela De Moraes Aviani (Brazil) and agreed the following:

Cover page	to add common names: Eucalyptus (F), Eukalyptus (G), Eucalipto (S)
1.	to read “These Test Guidelines apply to all varieties of the species of the sections *Transversaria*, *Maidenaria* and *Exsertaria* of the sub-genus *Symphyomyrtus* of the genus *Eucalyptus* L'Hér..
3.3.2 to 3.3.4	to be deleted
3.4.3	to be deleted
5.3	to add Chars. 43 and 50
Table of Chars.	to add sufficient number of example varieties
Chars. 1, 2, 6-13, 17-29, 33-40, 42, 45-48, 50-55	to be indicated as VG
Chars. 3-5, 14-16, 30-32, 44	to be indicated as VG/MS
Chars. 41, 43, 49,	to be indicated as MG
Char. 56	to be indicated as MS
Char. 2	to add (*)
Chars. 3, 14, 30	to add (*)
Chars. 4, 15, 31	to add (*)
Chars. 5, 16, 32	to read “ratio length/width”, to have the states: slightly elongated (3); moderately elongated (5); very elongated (7) and to add (*)
Chars. 6, 17, 33	to be indicated as QN and to reverse the order of states
Chars. 7, 18, 34	to add (*)
Chars. 8, 19, 35	to read “Leaf blade: shape of apex excluding tip”, with the states: acute (1); obtuse (2); rounded (3); obcordate (4) and to add (*)
Chars. 9, 20, 36	to read “Leaf blade: differentiated tip”, with the states: none (1); apiculate (2); acuminate (3); cirrhous (4); mucronate (5); aristate (6), to be indicated as PQ, to add (*) and to add (+) and provide illustration
Char. 10	to add (*)
Chars. 12, 28, 39	to check whether to be deleted (if Char. 1 is QL). If not, Chars. 1, 12, 28, 39 to have 3 states: absent or short (1); medium (2); long (3)
Chars. 22, 40	to check whether to be deleted (if Char. 22 is QL). If not, Chars. 22, 40 to have 3 states and to be indicated as PQ
Char. 24	to add (*)
Char. 25	to read “Trunk: main color of rhytidome”, to check whether more states are needed and to add (+) with explanation of main color
Char. 26	to read “Trunk: main color excluding rhytidome”, to add (+) with explanation of main color and to add (*)
Char. 27	to add “(excluding rhytidome)”
Char. 37	to have the states: same or slightly darker (1); moderately darker (2); much darker (3) and to be indicated as QN
Char. 38	to add (*)
Char. 41	to read “Tree: time of first flowering”, to have the states: early (1); medium (2); late (3) and to add (*)
Char. 42	to read “Flowering type”, with the states: solitary (1); umbel (2) and to add (+) and provide illustration

Char. 43	to read "Only varieties with flowering type: umbel: Umbel: number of buds" and to add (*)
Char. 44	to read ""Only varieties with flowering type: umbel: Peduncle: length" and to add (*)
Char. 45	to check whether QL, to add (+) and provide illustration and to add (*)
Char. 46	to add (*)
Char. 47	to check whether to read "Fruit: pedicel" and to add (*)
Char. 48	to check whether to read "Fruit pedicel: length relative to calyx", to add (+) and provide illustration and to add (*)
Char. 49	to add (*)
Char. 50	to add (*)
Char. 51	to add (*)
Char. 52	to check whether QN and to add (*)
Char. 53	to be indicated as QN and to add (*)
Char. 54	to be indicated as PQ
Char. 55	to add (*)
Char. 56	to read "Trunk: density of wood"
Ad. 4, 15, 30	to be deleted
Ad. 24	to provide illustration of varieties with and without rhytidome: explanation in Ad. 24 implies that all varieties have rhytidome.
Ad. 40	to add Ad. 22 to heading
Ad. 52	to replace illustration for state 3 with state 3 from Ad. 53 (disc is solid and clear in Ad. 52 state 3, but in Ad. 52 the disc looks more like the valve)
Ad. 54	to explain where to observe if not specified in TAPPI Norm #T258 om-94 (Technical Association of Pulp and Paper Industry)
TQ 5	to add Chars. 10, 42
TQ 5.5 (54)	to be deleted
TQ 6	example to be provided

Gladiolus (Revision)

65. The subgroup discussed document TG/108/4(proj.4), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

Cover page	- to add UPOV code "GLADI" - to check whether to add common names Gladiolus (E), Glaïeul (F), Gladiole (G), Gladiolo (S)
1.	to delete "of the family *Iridaceae*"
3.3.2	to replace with a note in Chapter 8.1 (see note (a))
6.5	to be corrected to refer to notes in Chapter 8.1 (currently on (a)) and (+) to refer to Chapter 8.2
Table of Chars.	to delete all notes (a)
Char. 1	to add (+) with explanation (including inflorescence) and to add (*) and to be indicated as MG
Char. 2	to add (+) and to provide illustration and explanation that it refers to natural height and to correct notes to (3); (5); (7) and to add (*) and to be indicated as MG

Char. 3	to add (*) and to be indicated as MG
Char. 4	to add (*) and to be indicated as VG
Char. 5	to add (*) and to be indicated as VG
Char. 6	to add (*) and to be indicated as MG
Char. 7	to add (+) with explanation that number of flowers includes closed buds and to add (*) and to be indicated as MG
Char. 8	to add (*) and to be indicated as MG
Char. 9	to read: “Spike: length of internode” with notes (1); (2); (3) and to be indicated as MG
Char. 10	illustration to be provided (+) but no explanation provided in Chapter 8) to add (*) and to be indicated as VG
Char. 11	to be indicated as VG
Char. 12	to add (*) and to be indicated as VG
Char. 13	to read: “Flower: shape of upper part in lateral view” and illustration to be provided ((+) but no explanation provided in Chapter 8) and to add (*) and to be indicated as VG
Char. 14	to check whether possible to add (+) and provide illustration to add (*) and to be indicated as VG
Char. 15	to add (*) and to be indicated as MG
Char. 16	to check whether to have status: self-colored (1); bi-colored (2); multi-colored (3) and to be indicated as VG and PQ and to add (*)
Char. 17	to add (*) and to be indicated as VG
Char. 18	states to read: absent (1); lighter towards the base (2); lighter towards the top (3) and to be indicated as VG
Char. 19	to have notes (1), (2), (3) and to be indicated as MG
Char. 20	to add (*) and to be indicated as VG
Char. 21	to add (*) and to be indicated as VG
Char. 22	to add (*) and to be indicated as VG
Char. 23	to read: “Perianth throat: color of spots on outer side” and to add (*) and to be indicated as VG
Char. 24	to add (+) and provide illustration in form of grid and to add (*) and to be indicated as VG
Char. 25	to be indicated as VG
Char. 26	to provide example varieties and nto be indicated as VG
Char. 27	to add (*) and to be indicated as VG
Char. 28	to delete underlined part of header and to have the notes (1), (2), (3) and to be indicated as VG
Char. 29	to delete underlined part of header and to be indicated as VG
Char. 30	to delete underlined part of header and to add (*) and to be indicated as VG
Char. 31	to delete underlined part of header and to add (*) and to be indicated as VG
Char. 32	to delete underlined part of header and to add (*) and to be indicated as VG
Char. 33	to read: “Inner tepal: size of macule in relation to inner tepal” and to be indicated as VG
Char. 34	to delete underlined part of header and to add (*) and to be indicated as VG
Char. 35	to delete underlined part of header and to add (*) and to be indicated as VG and to delete “1”
Char. 36	to read: “Inner tepal: secondary color of macule” and to be indicated as VG
Char. 37	to delete underlined part of header and to be indicated as VG

Char. 38	to delete underlined part of header and to add (+) and provide illustration to indicate what is meant by marginal zone (Ad. 38, Ad. 39) and to add (*) and to be indicated as VG
Char. 39	to delete underlined part of header to add (+) and provide illustration to indicate what is meant by marginal zone and to be indicated as VG and to have notes (1); (2), (3)
Char. 40	to read: “Inner tepal: border of marginal zone” and to be indicated as VG
Char. 41	to delete underlined part of header to add (*) and to be indicated as VG
Char. 42	to read: “ Only varieties with flowers: shape of upper part in lateral view: triangular: Median inner tepal: attitude” and to be indicated as VG
Char. 43	to read: “Only varieties with flowers: shape of upper part in lateral view: triangular: Median inner tepal: attitude of apex” and to check whether to delete state (3) and to be indicated as VG
Char. 44	to add (*) and to be indicated as VG
Char. 45	to add (*) and to be indicated as VG
Char. 46	to read: “Filament: color of apex compared to main color” and to have at least 3 states, e.g. same or slightly different (1); moderately different (2); very different (3) and to be indicated as QN
Char. 47	to add (+) and provide illustration and to add (*) and to be indicated as VG
Char. 48	to be indicated as VG
Char. 49	to add (+) and provide illustration and to add (*) and to be indicated as VG
Char. 50	to add (+) and provide illustration where style is and to change order and example varieties and notes: white (1); yellow white (2); yellow green (3); pink (4) and to be indicated as VG
Char. 52	to be deleted (duplication of Char. 51)
Char. 53	to read “RHS Colour Chart” and to add (*) and to be indicated as VG
Char. 54	to be indicated as MG
Table of Chars.	to insert [new] (a) in Ad. 17, 29, 30, 49 and in all Chars. with “main color”
8.1	All observations should be made when the first flower is fading.
New (a) (take from Ad.17, 29, 30, 49)	(a) The main color is the color with the largest total surface area, the secondary color (if present) is the color with the second largest total surface area. In case of when none of the colors is clearly predominant then the lightest color will be the main color.
8.2	to update in accordance with changes in Table of Chars.
Ad. 3	to read: “Observations should be made on the second to last leaf”
Ad. 8	to read: “The number of open flowers is assessed on all flowers which are fully open at the same time, including the first flower.”
Ad. 34	to improve illustrations
Ad. 47	to read: “Connective: the filament or tissue connecting the two (cells of an) anthers, particularly when those (cells) are separated” and to add illustration
9.	to provide
1.2	to add common name
TQ 5	to update accordingly

Hebe Comm. ex Juss.

66. The subgroup discussed document TG/HEBE(proj.1), presented by Mr. Chris Barnaby (New Zealand) and agreed the following:

Cover page	to add common names: Véronique (F), Strauchveronika (G), Verónica (S)
3.3.2	to be deleted
4.1.4	to use standard wording and indicated number of plants as 7
5.3	to delete (g)
Char. 3	to read: “Plant: density of foliage”
Char. 4	to delete “intensity of”
Char. 6	to have states: sparse (1); dense (4)
New Char.	to consider adding new Char. after Char. 6 “Young stem: color with states yellow green; green; greenish brown; brown; reddish brown; reddish purple; purple; purplish black” and to be indicated as VG/MG
Char. 8	to correct spelling to “coloration”
Char. 10	to consider deleting for reasons of practicality
Char. 11	to read: “Leaf: presence of petiole”
Char. 12	to read: “Leaf: length of petiole”
Char. 14	to add (+) and provide illustration
Char. 14	to add (+) and provide illustration and to correct spelling “downwards” in state (5)
Char. 14	to be indicated as VG/MS
Chars. 14, 15, 16	to review example varieties in conjunction with other experts and to consider expansion of scale beyond 9 states
Char. 15	to be indicated as VG/MS and to review example varieties in conjunction with other experts
Char. 16	to be indicated as VG/MS and to reverse order of states and to consider whether states are meaningful
Char. 17	to consider to read: “Leaf blade: position of broadest part”
New Char. before Char. 19	to read: “Leaf blade: number of incisions on margin” with states: very few (1); few (2); medium (3); many (4)
Char. 19	to change state “cream” to “yellowish white” and to review color descriptions in Chars. 19, 20, 21 and 22 and to consider possibility of using RHS Colour Chart
Char. 21	to correct spelling to “color”
Char. 23	to consider expanding to 4 or 5 states
Char. 24	to review whether QL for Char. 24 and if not QL, to combine with Char. 25
Char. 26	to reverse order of state 2 and 3
Char. 28	to read: “Infloresence: shape in profile”
Char. 29	to read: “Infloresence: length of flowering part”
Char. 31	to consider deletion
Char. 32	to delete
Char. 34	to be indicated as VG
Char. 35	to be indicated as VG
Char. 36	to be indicated as VG
Char. 37	to be indicated as VG
Char. 38	to delete (*) and to consider deleting due to doubts over global application (but to maintain in TQ)

Char. 39	to be indicated as VG and to consider deleting due to doubts over global application (but to maintain in TQ)
Table of Chars. General	to check at future stage whether to add (*) to further characteristics
8.2	Explanations to be reviewed due to changes in Table of Characteristics
Ad. 9, 10	to add illustration
Ad. 13	to add diagram
Ad. 29	Infloresence: shape to be renumbered to Ad. 28
TQ 5	to review according to Table of Chars. and to add Char. 39

Heuchera and Heucherella

67. The subgroup discussed document TG/HEUCH(proj.3), presented by Ms. Liz Scott (United Kingdom) and agreed the following:

Cover page	to add common name “Coral Flower” (E) to Heuchera L.
1.	to delete reference to family
4.1.4	to reduce number of plants to 9
Table of Chars. (General)	to change “first color” to “color one”; “second color” to “color two”, etc throughout
Char. 1	to be indicated as VG/MG
Char. 2	to be indicated as VG/MG
Char. 3	to add (*) and to be indicated as VG
Chars. 4 to 9	delete “just expanded” – covered by note (b)
Char. 4	to be indicated as VG
Char. 5	to provide a worked example for whole system [unnecessary to provide full set of examples] and to be indicated as VG and to have variety example “Key Lime Pie” for state (9)
Char. 6	to be indicated as VG
Char. 7	to be indicated as VG
Char. 8	to add state “none” for single-colored varieties and renumber accordingly and to be indicated as VG
Chars. 9, 10, 11, 12	to be indicated as VG
Char. 13	to add state “none” for varieties without third color and renumber accordingly and to be indicated as VG
Chars. 14, 15, 16	to be indicated as VG
Char. 17	to add state “none” for varieties without fourth color and renumber accordingly and to be indicated as VG
Table of Chars. General	to change all states “random/irregular” to “irregular”
Chars. 18, 19	to be indicated as VG

Char. 20	to add (*) and to be indicated as VG/MG
Char. 21	to be indicated as VG
Char. 22	to add (+) with explanation and to be indicated as VG
Char. 23, 24	to be indicated as VG/MG
Char. 25	to find heuchera appropriate wording for states and to be indicated as VG/MG
Chars. 26, 27, 28	to be indicated as VG
Char. 29	to add (*)
Char. 30,	to be indicated as VG
Char. 31	to add (+) and provide illustration to avoid confusion with Char. 29 and to be indicated as VG
Char. 32	to add (+) and to be indicated as VG
Chars. 33 to 40	to be indicated as VG
Char. 41	to add state: none (1) and renumber and to be indicated as VG
Char. 42 to 44	to be indicated as VG
Char. 45	to add state: none (1) and renumber and to be indicated as VG
Chars. 46 to 48	to be indicated as VG
Char. 49	to add state: none (1) and renumber and to be indicated as VG
Chars. 50, 51	to be indicated as VG
Char. 52	to read: “Leaf blade: color of lower side (if significantly different from the upper side)” and to be indicated as VG
Char. 53	to be indicated as VG
Char. 54	to be indicated as VG/MG
Char. 55	to add (+) with explanation (..color covering the greatest surface area…) and to be indicated as VG
Chars. 56, 57	to be indicated as VG/MG
Char. 58	to develop some heuchera appropriate wording and to be indicated as VG/MG
Char. 59	to be indicated as VG
Char. 60	to add (+) with explanation and to be indicated as VG
Char. 61	to be indicated as VG
Chars. 62, 63,	to be indicated as VG/MG
Chars. 64, 65	to be indicated as VG
8.1	to reverse order of notes (d) and (e) and to check allocation of notes (Chars. 56 to 60) and to replace notes covering only one characteristic with Ad. in Chapter 8.2
Ad. 1, 2, 54, 56, 57, 57	to split image into two: Ad. 1, 2 and Ad. 54, 56, 67, 58
Ad. 26, 27, 29	to improve illustration

Ad. 62, 63, 64	to provide similar illustration on Heucherella to show how the note affects the observation of the characteristic, e.g. the length includes the petals if they extend beyond the calyx lobe

Hibiscus syriacus L.

68. The subgroup discussed document TG/HIBIS(proj.5), presented by Mrs. Ok-Sun Kim (Republic of Korea) and agreed the following:

1.	to read "These Test Guidelines apply to all varieties of *Hibiscus syriacus* L.."
4.1.4	to read "Unless otherwise indicated, all observations for the purposes of distinctness should be made on 6 plants or parts taken from each of 6 plants, disregarding any off-type plants."
6.5	to read "(+) See Explanations on the Table of Characteristics in Chapter 8.2"
Chars. 1, 3-6, 9-19, 21, 22, 24-27, 30-37	to be indicated as VG
Chars. 7, 8, 23, 28, 29	to be indicated as VG/MS
Char. 2	to be indicated as MG/MS
Char. 20	to be indicated as MG
Char. 4	to read ""Current-year branch: color"
Char. 5	to be deleted
Char. 9	to have the states: slightly elongated (1); moderately elongated (2); very elongated (3) and to add (*)
Char. 10	to add (*) and state 3 to read "rounded"
Char. 11	to add (*) and example variety to be provided for state 3
Char. 12	to be deleted
Char. 13	to be moved after Char. 15 and to add (*)
Char. 14	to delete "depth of"
Char. 16	to delete (+)
Char. 17	to be deleted
Char. 18	to be retained and to add (*)
New 1 (after 18)	to read "Flower: length of pedicel", with the states: short (1); medium (2); long (3) and to be indicated as VG, QN and to add note (b)
Char. 19	to be indicated as QL, to have example varieties Asadal (1); Aka-hanagasa (2); and example variety to be provided for state 3.
Char. 20	to read "Excluding varieties with flower type: single: Flower: number of petaloid stamens", to delete figures and to add (*)
Char. 21	to add (*) and to have the states: strongly ascending (1); moderately ascending (3); horizontal (5)
Char. 22	to read "Excluding varieties with flower type: double: Flower: arrangement of outermost petals", with the states: strongly apart (Antong) (1); slightly apart (2); touching or slightly overlapping (Lady Stanley) (3); moderately overlapping (4); strongly overlapping (Jongmoo, Yousoon) (5) and to add (*)
Char. 23	to add (*)
Char. 25	to add (*)
Char. 26	to add (*)
Char. 27	to add (+) with explanation of "main" color and to add (*)
Char. 28	to add (*)
Char. 29	to add (*)

Char. 30	to be deleted or to clarify the different states other than by ratio length/width, e.g. by lateral asymmetry and to word the characteristic and states accordingly
New 2 (after 30)	to read “Petal: shape” and to have the states: slightly elongated (1); moderately elongated (2); very elongated (3), to be indicated as QN, VG and to add (*) and note (b)
Char. 31	to be deleted
Char. 32	to read “Petal: main color on inner side (eye zone and extensions excluded)” and to add (*)
Char. 33	to read “Petal: secondary color on inner side (eye zone and extensions excluded)” and to add (*)
Char. 34	to read “Petal: distribution of secondary color (eye zone and extensions excluded)”, to have the states: none (1); lateral zone (Asadal, Lady Stanley((2); distal half (3); throughout (4) and to add (*)
Char. 35	to add (*)
Char. 36	to add (*)
Char. 37	to read “Excluding varieties with flower type: double: Staminal column: length” and to have notes 1, 2, 3
Char. 38	to be deleted
Ad. 1	illustrations to be deleted and to retain photographs
Ad. 4	to read “The color should be observed one month after the first flower has fully opened on the middle third of the current-year branch” and photographs to be deleted
Ad. 10	to provide improved photograph for state 3
Ad. 13	to be completed
Ad. 14	to replace with illustrations
Ad. 15	to provide improved illustration
Ad. 19	to have the following explanation: single: only 5 petals semi double: some petaloid stamenoids present double : no stamens and no pistil
Ad. 22	to amend notes to 1, 3, 5
Ad. 24	to provide illustrations without extensions
Ad. 37	to delete second photograph
TQ header	text concerning hybrid to be deleted
TQ 5.6	to refer to Char. 32 and state 1 to read “white or whitish”
TQ 9.3	to be deleted

Hosta

69. The subgroup did not discuss document TG/HOSTA(proj.4)

Lilac (*Syringa* L.)

70. The subgroup discussed document TG/LILAC(proj.1), presented by Ms. Hongxia Cui (China) and agreed the following:

Cover page	to add common names: Lilas (F), Flieder (G), Lila (S)

2.2	to read: “The material is to be supplied in the form of 2-year to 3-year old plants, capable of flowering and expressing all relevant characteristics of the variety during the first growing cycle.”
2.3	to read: “The minimum quantity of plant material, to be supplied by the applicant, should be: 9 plants”
3.3.2	to move to Chapter 8.1
4.1.4 (first)	to be deleted
4.1.4	number of palnts to be reduced to 8
5.3	to harmonize with TQ 5 characteristics and to add (*) to all characteristics in the Table of Chars.
Char. 1	to read: “Plant: number of main stems” and to have states: one (1) with example variety “Ivory Silk”; more than one (2) with example variety “Wan Hua Zi”
Char. 3	to be indicated as VG/MG and to provide example varieties for tree and shrub type (see TG for Rose)
Char. 4	to read “Plant: density of branches”, with the states: sparse (3); medium (5); dense (7)
Char. 7	Chars. 7, 8 etc. - to read “Only varieties with leaf type: simple:…” and “Only varieties with leaf type: compound:…” and to check whether to Chars. 7, 10, 11 - to be combined into a single QN characteristic
Char. 8	- to provide illustration in form of grid to show elements of variation, e.g. ratio length/width, position of broadest part etc. (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.) and state 3 to read “circular”
Char. 11	to be indicated as MS
Char. 12	to add (+) to specify if terminal leaflet and to provide illustration in form of grid to show elements of variation, e.g. ratio length/width, position of broadest part etc. (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.).
Char. 13	to have notes (1) and (9)
Char. 14	to combine Chars. 14 and 15 to read: “Leaf: main color” with states: yellow (1); yellowish green (2); light green (3); medium green (4); dark green (5)
Char. 15	to delete
Char. 16	to read: “Leaf: secondary color” with the states: absent (1); white (2); yellow (3); light green (4)
Char. 17 to 20	to delete
Char. 22	to add (+) with explanation and to provide illustration in form of grid to show elements of variation, e.g. ratio length/width, position of broadest part etc. (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.) and to use shape terms from TGP/14 for states 1 and 2
Char. 24	to add (+) with explanation, to have 3 states and amend notes (1), (2), (3)
Char. 25	to be indicated as VG/MG
Char. 26	to have more than 3 states; conic (1); conic to columniform (2); columniform (3)
Char. 27	to read: “Plant: number of inflorescences” with states: few (3); medium (5); many (7) and to be moved before Char. 5
Char. 28	to check correct terms (see illustrations in Ad. 28)
Char. 29	to read: “Inflorescence: density of florets” and to change state (9) “extremely dense” to “very dense”
Char. 30	to read: “Pedicel: angle with rachis”

Char. 31	to add (+) and provide illustration indicating what to look at and to check whether to be indicated as VG/MS
Char. 32	to have notes (1), (2)
Char. 33	to read "Only varieties with floret type: double: Corolla lobe: number" and to be indicated as MS and QN
Char. 35	Chars. 35 to 38 - part in brackets to be deleted and to add (h) to Ad. 35 to 38 and to check the correct terms (TGP/14) and to update illustration accordingly
Char. 36	to check terms and shapes and to add note (h)
Char. 37	to add note (h)
Char. 38	to read: "Corolla lobe: undulation" - QN characteristic with three states: absent or weak (1); moderate (2); strong (3)
Char. 39	to read: "Corolla lobe: incurving of margin" and be indicated as QN with states: absent or weak (1); moderate (2); strong (3)
Char. 40	to check whether different from Char. 33
Char. 41	to have 3 states: not obvious (1) with example varieties "Jewel, Luo Lan Zi"; slightly obvious (2); clearly obvious (3) with example variety "AnneTighe"
Chars. 42, 43	to delete
Char. 45	to be indicated as PQ
Char. 46	to delete
Chars. 47 to 49	to delete underlined part
Char. 47	to replace "upper" with "inner"
Char. 48	to replace "upper" with "inner"
Char. 49	to be indicated as VG
Char. 50	to be deleted
8.1	to add: "The optimum stage of development for the assessment of each flowering characteristic is at the time of full flowering"
8.1	to add: "(h) All observations on double flowers should be made on the lobes of the second whorl."
Ad. 37	to improve illustration
Ad. 38, 28	to revise illustration accordingly

Lomandra Labill.

71. The subgroup discussed document TG/LOMAN(proj.1), presented by Mr. Nik Hulse (Australia) and agreed the following:

4.1.4	number of plants to be reduced to 9
5.3	(b) to be deleted
Table of Chars. General	to check (*) characteristics
Char. 1	to be indicated as VG
Char. 3	to read: "Plant: height of foliage" and to delete states (1) and (9)
Char. 4	to read: "Plant: density of foliage"
Char. 5	to add (+) and provide illustration and to be indicated as VG
Char. 8	to add (+) and provide explanation in 8.1

New Char.	to read: “Leaf: type of apex” with states: entire (1); toothed (9)
Char. 9	to provide a diagram and to check whether “entire” is a state
Char. 10	to be indicated as VG and to give an explanation in new (c) in 8.1
Char. 11	to read: “Leaf: glaucosity of adaxial surface”
Char. 13	to read: “Leaf: color of adaxial side (excluding variegation)” and to have note (c)
Char. 14	to read: “Leaf: color of variegation” and to have note (c)
Char. 15	to delete
Char. 16	to delete states (1) and (9)
Char. 17	to be indicated as VG
Char. 18	to be indicated as VG
Char. 19	to read: Inflorescence: height in relation to foliage with states: lower (1); level (2); higher (3)
Char. 23	to consider using color groups instead of RHS Colour Chart
Char. 26	to consider using color groups instead of RHS Colour Chart and to delete (*)
Char. 27	to delete
8.1	to check notes (a) to (d)
Ad. 5	diagram to be added
8.2 General	to re-order all Ads.
Ad. 6	to read: Ad. 16 and to expand explanation and possibly include illustration
Ad. 9	photo or diagram to include “entire”

Mandevilla

72. The subgroup discussed document TG/MANDE(proj.1), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

Cover page &	- to clarify coverage of the Test Guidelines (all of genus or just the species listed?) - to add UPOV code “MANDE” - to check whether Diplademia could be mentioned - to check whether to add common names: Mandevilla (E), Mandevilla (F), Mandevilla (G), Mandevilla (S)
1	to delete “of the family Apocynáceae”
2.3	to reduce number of young plants to 20
5.3	number to be corrected
6.5	to refer to notes (a) to (d)
Table of Chars. General	to check whether to add (*) for further characteristics and to provide more example varieties, particularly for (*), QN and PQ characteristics
Char. 1	state (3) to read: sparse and to be indicated as VG
Char. 2	to add (+) with explanation and to be indicated as VG/MG state (7) to read: long
Char. 3	to read: “Young stem: green color” with the states: light (1); medium (2); dark (3) and to be indicated as QN and VG
Char. 4	to have states: absent or very weak (1); weak (2); medium (3); strong (4) and to be indicated as VG
Char. 5	to be indicated as VG

Char. 6	to read: “Leaf: arrangement” and to add (+) with explanation and to delete note (a) and to be indicated as VG
Char. 7	to be indicated as VG/MG and have notes (1); (2); (3)
Char. 8	to read: “Petiole: green color”, with the states: light (3), medium (5), dark (7) and to be indicated as VG
Char. 9	to have states: absent or very weak (1); weak (2); medium (3); strong (4) and to be indicated as VG
Char. 10	to be indicated as VG
Char. 11	to be indicated as MG
Char. 12	to be indicated as MG
Char. 13	to reverse the order of states and to be indicated as VG
Char. 14	to delete “the” in state (2) and to be indicated as QN and VG
Char. 15	to check the term for state (1) - ?acuminate? and to be indicated as VG
Char. 16	to read “Leaf blade: green color of upper side”, with the states: light (3), medium (5), dark (7) and to be indicated as VG
Char. 17	to have the states: very weak (1); medium (2); strong (3) and to be indicated as VG
Char. 18	to add (+) and provide illustration and to be indicated as VG
Char. 19	to be indicated as VG
Char. 20	to read “Leaf blade: green color of lower side”, with the states: light (3), medium (5), dark (7) and to be indicated as VG
Char. 21	to be indicated as VG
Char. 22	to be indicated as VG
Char. 23	to have notes (1), (2), (3), (4) and to be indicated as VG
Char. 24	to have notes (1), (2), (3) and to be indicated as MG
Char. 25	to read “Pedicel: green color”, with the states: light (3), medium (5), dark (7) and to be indicated as VG
Char. 26	state (1) to read: “absent or weak” and to be indicated as VG
Char. 27	to be indicated as VG
Char. 28	to be indicated as QL and to add (+) and provide illustration
Char. 29	to be indicated as MG with the notes: (1), (2), (3)
Char. 30	to read: “Calyx: color of basal half” and to be indicated as PQ and VG
Char. 31	to read: “Calyx: color of distal half” and to be indicated as PQ and VG
Char. 32	to be indicated as MG
Char. 33	to have notes: (1), (2), (3) and to be indicated as MG
Char. 34	to move before Char. 33 and to add (+) and provide illustration. To add note (d) and to be indicated as VG
Char. 35	to be indicated as VG
Char. 36	to be indicated as MG with notes: (1), (2), (3)
Char. 37	to have states: narrow (1); medium (2); broad (3) and to be indicated as VG
Char. 38	to be indicated as VG
Char. 39	to be indicated as VG
Char. 40	to be indicated as VG
Char. 41	to be indicated as VG
Char. 42 to 49	to replace “Limp” with “Corolla lobe”
Char. 42	to be indicated as VG
Char. 43	to add (+) and provide illustration and to be indicated as PQ and VG
Char. 44	to be indicated as VG

Char. 45	to add (+) and provide illustration and to be indicated VG
Char. 46	to add (+) and provide explanation and to be indicated VG
Char. 47	to read: “Corolla lobe: recurving of margin” and to be indicated as VG
Char. 48	to be indicated as QN and VG
Char. 49	to add (+) and provide illustration and to be indicated as VG
Char. 50	to have the states: yellowish white (1); light yellow (2); medium yellow (3); light green (4); medium green (4) and to be indicated as VG
Char. 51	to be indicated as VG
Char. 52	to be indicated as VG
New Char.	to read: “ Flower: type” with the states: single (1); double (9)
Ad. 33, 35 to 39	to add header

Oncidium Sw.

73. The subgroup discussed document TG/ONCID(proj.3), presented by Mr. Kenji Numaguchi (Japan) and agreed the following:

Cover page and 1.	to list all intergeneric hybrids in Chapter 8.3 and to request GRIN to update their records
Altern. names	to add “Oncidium” as common name for F, G and S
1.	to delete “of the family Orchidaceae”
2.2	to check whether to read “The material is to be supplied in the form of plants that have not previously flowered, ready to show all the characteristics within 2 months”
2.3	to delete “young”
4.1.4	to read “Unless otherwise indicated, all observations for the purposes of distinctness should be made on 8 plants or parts taken from each of 8 plants, disregarding any off-type plants.”
5.3	wording of characteristics to be amended according to Table of Chars.
6.5	to amend to read “(a) – (c)”
Char. 2	additional example varieties to be provided
Chars. 7, 8	to be indicated as “MS” and to add note (a)
Char. 13	to read “Leaf: intensity of green color on upper side”, to delete note (c)
Char. 15	to read “Inflorescence: length of flowering part”
Char. 16	to delete underlined wording
Char. 17	to be indicated as MS/MG
Char. 21	to read “Flower: curvature of sepals”, with state 2 to read “straight” and state 3 tor and state 3 to read “recurving”
Char. 22	to read “Flower: curvature of petals”, with state 2 to read “straight” and state 3 tor and state 3 to read “recurving”
Char. 25	to be indicated as QN and to have the states: absent or weak (1); moderate (2); strong (3)
Char. 31	to be indicated as QN and to add (+) and provide illustration

Chars. 32 etc.	joint subgroup with Phalaenopsis to review the following options for describing the color pattern: Ground color (color of underside) / pattern Pigments (anthocyanin, carotenoid) RHS Colour Chart order (“Lisbon” approach)
8.1 (c)	to delete “on the color of leaf should be made on the upper side, and”

Phalaenopsis (Revision)

74. The subgroup discussed document TG/213/2(proj.3), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

Cover page	to delete “Phalaenopsis hybrids”
1.	to read “These Test Guidelines apply to all varieties of Phalaenopsis Blume”
2.3	to delete “young”
4.2	to delete duplicated paragraph
4.2.2	to read “…In the case of a sample size of 9 plants, 1 off-type is allowed.”

Chars. 1-4, 15-17, 21, 22, 25, 26, 52, 53, 70, 71, 74,	to be indicated as MG
Chars. 5-14, 18-20, 23, 24, 27-51, 54-69, 72, 73, 75-101	to be indicated as VG

Char. 2	to add (*) and to read “…inflorescences”
Char. 5	to add (+) and provide illustration and to have notes 1, 2, 3 and to reverse order of states
Char. 6	to add (+) and provide illustration
Char. 7	to add (+) and provide illustration
Char. 10	to delete “longitudinal”
Char. 11	to add note (b)
Char. 12	to add note (b) and to add (+) with explanation
Char. 13	to add note (b)
Char. 14	to add (+) and provide illustration in form of grid (see TGP/14/1 Draft 9: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 19, Section 2.1.3 and page 28)
Char. 18	to delete “at lower third” and move to Ad. 18
Char. 20	to read “Flower: shape in profile”, with the states: concave (1); flat (2); convex (3) and to add (+) and provide illustration
Char. 27	to reverse the order of states
Chars. 30, 57	to read “…: shape in cross section”
Char. 32	to be indicated as QN and to correct notes and example varieties to notes 1, 2, 3
Char. 34	to be deleted
Char. 35	to read “Dorsal sepal: over color (if present)” and to add (+) with explanation
Chars. 35 etc.	to provide illustrations for types of color pattern (see Oncidium)
Char. 44	to be deleted
Char. 45	to read “Lateral sepal: over color (if present)” and to add (+) with explanation
Char. 54	order of states to be reversed

Char. 58	to check whether to delete
Char. 59	to delete “very” in state 1
Char. 61	to be deleted
Char. 62	to read “Petal: over color (if present)”
Chars. 70 etc.	to correct Spanish translation of “Lip”
Char. 72	to provide illustration in form of grid (see TGP/14/1 Draft 9: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 19, Section 2.1.3 and page 28)
Char. 75	to be indicated as QN
Char. 77	to be indicated as QN
Char. 80	to be deleted
Char. 81	to read “Apical lobe: over color (if present)”
Char. 82	to have the states: none (1); few (2); medium (3); many (4)
Char. 85	to have the states: none (1); few (2); medium (3); many (4)
Char. 87	to have the states: none (1); sparse (2); medium (3); dense (4)
Char. 89	to read “Lateral lobe: ground color”
Char. 90	to be deleted
Char. 91	to read “Lateral lobe: over color (if present)”
Char. 92	to have the states: none (1); few (2); medium (3); many (4)
Char. 94	to have the states: none (1); few (2); medium (3); many (4)
Char. 96	to have the states: none (1); sparse (2); medium (3); dense (4)
Char. 98	to be indicated as QN and to add (+) and provide illustration
General	joint subgroup with Oncidium to review the following options for describing the color pattern: Ground color (color of underside) / pattern Pigments (anthocyanin, carotenoid) RHS Colour Chart order (“Lisbon” approach)

Torenia

75. The subgroup discussed document TG/TOREN(proj.2), presented by Mr. Kenji Numaguchi (Japan) and agreed the following:

1.	to delete “of the family Scrophulariaceae”
4.1.4	to read “Unless otherwise indicated, all observations for the purposes of distinctness should be made on 9 plants or parts taken from each of 9 plants for vegetatively propagated varieties or 19 plants or parts of plants taken from 19 plants for seed propagated varieties, disregarding any off-type plants.”
5.3 (e)	to replace Char. 27 with Char. 26 “Lower corolla lobe: conspicuousness of blotch”
Char. 1	to have the states: upright (example variety Crown Blue) (1); upright to semi upright (2); semi upright (example variety to be provided) (3); semi upright to horizontal (4); horizontal (Danmoon20) (5); drooping (example variety to be provided) (6)
Char. 3	to add (*) and to add example variety “Danmoon15” for state 7
Char. 4	to be deleted

Char. 8	to be indicated as VG, to read “Leaf blade: depth of incisions of margin” and to have the states: very shallow (1); shallow (HATO-04-05) (2); medium (3); deep (Danmoon20) (4); very deep (5)
Char. 9	to be moved before Char. 8, to be indicated as VG and to have the states: dentate (Danmoon20) (1); dentate to crenate (2); crenate (HATO-04-05) (3)
Char. 10	to be deleted
Char. 11	to add (*)
Char. 12	to be indicated as MG
Char. 13	to be indicated as VG/MS and to add example variety “Dantopur” for state 7
Char. 14	to be indicated as VG/MS and to add example variety “Dantopur” for state 7
Char. 15	to be indicated as VG/MS, to add (*) and to add example variety “Danmoon20” for state 5 and “Danmoon18” for state 7
Char. 16	to add (*)
Char. 17	to read “Corolla tube: vertical lines on inner side”, to be indicated as QN and to have the states: absent or weak (Crown Blue) (1); medium (2); strong (Danmoon20) (3)
Char. 19	to read “Corolla lobe: incisions of margin”, to be indicated as QN and to have the states: absent or weak (Danmoon20) (1); medium (2); strong (Danmoon15) (3)
Char. 26	to add (*), state 1 to read “absent or weak”, example varieties to be provided and to add (+) with illustration and explanation that the conspicuousness is determined by the color contrast with the color of the lower corolla lobe
Char. 27	to be deleted
8.1 (a)	to read “Observations on the leaf should be made on fully expanded leaves from the middle third of shoot.”
Ad. 1	to be modified according to change to Char. 1
Ad. 9	to delete notes “1” and “2”
Ad. 11	to delete photographs
Ad. 12	to delete photographs
Ad. 17	to provide photographs for the 3 states
Ad. 19	to replace “9 present” with “3 strong”
TQ 4.2	to delete scheme for hybrids
TQ 9.3	to be deleted

Tree Peony

76. The subgroup discussed document TG/PAEON(proj.3), presented by Ms. Yuan Tao (China) and agreed the following:

Cover page	to check how to use UPOV code for section
5.3	to harmonize with TQ 5 characteristics and to add (*) to all characteristics in the Table of Chars.
6.5	to indicate (a) to (i)
Char. 1	to be indicated as VG
Char. 2	to be indicated as MG/VG
Char. 3	to delete
Char. 4	Char. 4, 5 etc. - to add (+) with explanation of “mixed bud” and to be indicated as VG
Char. 5	to be indicated as VG

Char. 6	to add (*) and to be indicated as VG/MG
Char. 7	to read: “Very young shoot: color” and explanation in brackets to be moved to Ad. 7 and to be indicated as VG
Char. 8	to add (*) and to be indicated as VG
Char. 9	to add (*) and to be indicated as VG/MG
Char. 10	to have states: upwards (1); outwards (2); horizontal (3) and to be indicated as VG
Char. 11	- to read “Leaf: type” and to change illustration in Ad. 11 of state (3) and to be indicated as VG/MG and to add (*)
Char. 12	to add (*) and to be indicated as MG
Char. 13	to add (*) and to be indicated as MG
Char. 14	to be indicated as MG
Char. 15	to be indicated as QN and VG
Char. 16	to add (*) and to be indicated as VG
Char. 17	to provide diagrams of single leaflet shapes in Ad. 17 and to add (*) and to be indicated as VG
Char. 18	to be checked against Char. 11 and to add (*) and to be indicated as VG
Char. 19	to add (*) and to be indicated as VG
Char. 20	to be indicated as QN and VG
Char. 21	to delete “ predominant” and to add explanation in Ad. 21: A variety may have more than one flower type, but the flower type recorded will be the most complex and to add (*) and indicate as VG
Char. 22	to be indicated as MG
Char. 23	to be indicated as MG
Char. 24	to be deleted
New Char. 24	to read: “Flower: main color” with RHS Colour Chart and to add (+) and explanation on how to determine main color and to add (*) and to be indicated as VG
New Char.	to read: “Flower: secondary color” with RHS Colour Chart and to add (+) and explanation on how to determine main color and to add (*) and to be indicated as VG
Char. 25	to read: “Flower: distribution of secondary color” and to add (*) and to delete state: “stripes” and example variety “Shimanishiki” and to have states: block (1); center (2); circle (3) and to be indicated as VG
Char. 26	to delete
Char. 27	to delete
Char. 28	to delete
Char. 29	to read: “Excluding varieties with two colors and petal blotch: Petal: change of intensity of color towards base” with states: absent or very weak (1); weak (3); medium (5); strong (7) and to be indicated as VG
New Char.	to to check whether new Char. more appropriate to read: Only varieties without petal blotches: Petal base: color” with RHS Colour Chart – if this is the case, delete Char. 31 and to check whether to add (*) and to indicate VG
Char. 31	to check if (*) necessary and to be indicated as VG
Char. 32	see Chars. 28 (combine) main color and secondary color to add (*) and to be indicated as VG
Char. 33	to read: “Only varieties with blotch: Petal: shape of blotch” and to add (+) with explanation and add (*) and indicate as VG
Char. 34	to delete underlined wording and to add (*) and to be indicated as VG/MG

Char. 35	to read: “Petal: color of blotches” and to add (*) and to be indicated as VG and to correct example variety of state (2) to “High Noon” and (4) “ Xue Hai Ying Zhen”
Char. 36	to delete “(excluding petaloids)” and to be indicated as VG
Char. 37	to read: “Petal: shape” and to add (*) and to be indicated as VG
Char. 38	to be indicated as VG
Char. 39	to read: “Flower: petaloid stamens” and to be indicated as VG
Char. 40	to read: “Flower: number of petaloid stamens” and to be indicated as MG/VG
Char. 41	to read “Only varieties with flower petaloid stamens: present: conspicuousness of anthers” and to be indicated as QN and VG
Char. 42	to read “Flower: shape of petaloid stamens” and state (1) to read: “stamen-like” and to be indicated as VG
Char. 43	to have notes (1) and (2) and to be indicated as VG
Char. 44	to be indicated as MG
Char. 45	to add (*) and to be indicated as 45
Char. 46	to read “Pistil: openness of disc” and to reverse order of states and to add (*) and to be indicated as VG
Char. 47	to add (*) and to be indicated as VG
Char. 48	state 3 to read “fleshy” and to be indicated as VG
Char. 49	to have the states: yellowish white: (1) with varieties Renkaku, Xue Lian; state (2) yellow; pink (3); purple red (4); dark purple (5)
Char. 50	to reverse order of states and to add (+) and provide illustration and to reverse order of states and to be indicated as QL and VG
Char. 51	to add (+) and provide illustration and to be indicated as VG
Char. 52	to be deleted
Char. 53	to reverse states (2) and (3) and to be indicated as VG
Char. 54	to add (*) and to be indicated as VG
Char. 55	to be indicated as VG
Char. 56	to add (*) and to be indicated as VG
Char. 57	to move part in brackets to Ad. 57 and to be indicated as MG
Char. 58	to add (+) with explanation and to be indicated as MG
Char. 59	to add (+) with explanation of precise time to determine time of beginning of flowering: “The beginning of flowering is determined when 10% of all flower buds on the trial plants have opened.” and to to delete (*) and delete example varieties and to be indicated as MG
8.1	to delete (b)
8.2	to correct numbering in relation to Table of Chars.
Ad. 4	to be checked and to provide illustration in form of grid to show elements of variation, e.g. ratio length/width, position of broadest part etc. (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.).
Ad. 8 (7)	to be deleted
Ad. 10	terms to be updated as in Table of Chars.
Ad. 11	CN to change photo of state (3) tripinnate
Ad. 17	to provide other illustration to show the shape of the leaflet – perhaps in grid
Ad. 19	to provide illustration in form of grid to show elements of variation, e.g. ratio length/width, position of broadest part etc. (see TGP/14/1 Draft 11: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 21, Section 2.).

Ad. 21	A variety may have more than one flower type, but the flower type recorded will be the most complex – to consider better illustration for states (7) and (9)
Ad. 25	to delete stripe
Ad. 58	to be provided

Vriesea

77. The subgroup discussed document TG/VRIES(proj.5), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

2.2	to read “The material is to be supplied in the form of young plants, capable of flowering within one month and of expressing all relevant characteristics of the variety during the first growing cycle.”
3.3.2	to be reviewed and to be moved to Chapter 8.1
4.3.2	to replace “seed” with “plant”
5.3 (d)	to be deleted
5.3 (e)	to check whether order of groups should be: … orange red, red, purple pink, red purple…
Chars. 1, 2, 3, 10-13, 25, 27, 29-32, 35, 37, 38, 44, 45	to be indicated as MG
Chars. 4-9, 14- 24, 26, 28, 34, 36, 39-43, 46-49	to be indicated as VG
Char. 33	to be indicated as MG/VG
Char. 1	to read “Plant: height of foliage”
Chars. 4, 8, 16, 19	to delete “longitudinal” and to replace “inner” with “upper”
Chars. 4 etc.	to write “excluding” in full
Char. 6	to add (*), to add (+) and provide illustration and to provide additional example varieties if available
Char. 7	to add (+) and provide illustration and to delete “longitudinal”
Char. 8	to add (*), to delete state “none” and to provide additional example varieties
Char. 9	to delete “longitudinal”, to add (+) and provide illustration
Char. 10	to add (*)
Char. 11	to add (*)
Char. 14	to add (+) and provide illustration
Char. 15	to delete “longitudinal”
Char. 17	to delete “longitudinal”, to add (+) and provide illustration and to provide additional example varieties
Char. 18	to add (*) and state 2 to read “flushed”
Char. 19	to delete “longitudinal”, to delete state “none” and to provide additional example varieties
Char. 20	to delete “longitudinal” and to add (+) and provide illustration
Char. 21	to delete “longitudinal”
Char. 22	to add (+) and provide illustration and to provide example variety for state 2
Char. 23	to read “Inflorescence: height in relation to foliage”, with the states: lower (1); same height (2) and higher (3) and to add (+) and provide illustration
Char. 25	to add (*)

Char. 26	to be indicated as PQ, to add (+) and provide illustration, to check whether state 3 to read “drooping”, to delete “Vriesea guttata” and to provide additional example varieties
Char. 27	to add (*)
Char. 30	to underline “present”
Char. 31	to underline “present” and to add (*)
Char. 32	to add (*)
Char. 34	to add (+) and provide illustration in form of grid (see TGP/14/1 Draft 9: Section 2: Botanical Terms: Subsection 2: Shapes and Structures: I. SHAPE page 19, Section 2.1.3 and page 28)
Char. 35	to add (*)
Char. 37	to add (*)
Char. 38	to add (*)
Char. 40	to add (*)
Char. 41	to add (*)
Char. 43	to add (*)
Char. 45	to have notes 1, 2, 3
8.1	to check the allocation of notes in Table of Chars.(e.g. Chars. 15 to 19 for notes (a) and (b))
8.1 (a), (b)	to clarify the difference between “Young leaf blade” and “Leaf blade”
8.2	order of Ad. to be amended
Ad. 1, 2, 27	to provide Ad. 27 separately in sequence in Chapter 8.2
Ad. 4	to be provided
Ad. 18	images to be enlarged and clarified: to explain the differences between the types of pattern (see document TWO/43/23 Rev.)
Ad. 36	to be completed
TQ 5	to add Chars. 16 and 24
TQ 5.2	to be deleted

TGP Documents (continued)

TGP/14: Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents (continued)

78. The TWO considered document TWO/43/22, paragraphs 21 to 24, with regard to terms to cover spike / branch and welcomed the explanation provided, whilst noting that it would not be necessary to amend the definitions in document TGP/14.

Information and databases

(a) UPOV information databases

79. The TWO noted the information provided in document TWO/43/5 and agreed to check the new UPOV codes added to the GENIE database and UPOV code amendments, as set out in Annex II to document TWO/43/5, and to send any comments on the additions and amendments to the Office by November 1, 2010.

(b) Variety description databases

80. The TWO considered document TWO/43/6.

81. The expert from the European Union reported that, as a part of its process of moving to a paperless office, it was creating a database with variety descriptions that would enable variety descriptions to be published in an efficient way. Before starting to publish variety descriptions and also to publish information on applications, it had needed to consider a number of issues, such as confidentiality with regard to parentage and descriptions of parent lines, but those matters were being addressed and variety descriptions would be published (in English).

82. The TWO noted the interest in developing a UPOV database of variety descriptions, but recalled the concerns that had been raised with regard to the use of descriptions obtained from different locations and sources, as set out in document TC/45/9. However, it noted that the TWV, at its forty-fourth session, held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010, had discussed the substantial potential benefits in developing a database containing pea variety descriptions from members of the Union, at least for grouping characteristics as first step, and had agreed that Mr. Boulineau (France) should make a presentation on his concept at the forty-fifth session of the TWV. The TWO agreed that it would be useful to receive a report on that initiative at its forty-fourth session.

83. The expert from Brazil reported on the work that had been done on developing and publishing a database of some 600 soybean variety descriptions for 15 characteristics, based on information provided from different sources. The feedback had been very positive and a similar initiative was being developed for other crops, such as rice, cotton and sugarcane.

84. An expert from the Netherlands reported that there had been a delay in publishing variety descriptions as a result of the need to resolve certain IT matters and also because some of the descriptions were only available in Dutch and were based on botanical descriptors rather than UPOV characteristics.

(c) Exchangeable software

85. The TWO noted the information provided in document TWO/43/7.

(d) Electronic application systems

86. The TWO noted the information provided in document TWO/43/8.

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

87. The TWO noted the report on developments provided in document TWO/43/9.

DUS examination of seed-propagated varieties of Papaya

88. The TWO agreed with the approach proposed by the Leading Expert for the Test Guidelines for Papaya, as set out in document TWO/43/27, paragraph 11. It noted that there would be no obstacle to develop additional characteristics for male plants, for example, if that would be useful.

Experiences with new types and species

89. No reports were received on experiences with new types and species

Proposals for Partial Revisions / Corrections of Test Guidelines

90. No proposals were made for proposals for partial revisions / corrections of Test Guidelines.

Recommendations on draft Test Guidelines

91. The TWO agreed that the following draft Test Guidelines should be sent to the TC for adoption at its forty-seventh session, to be held in Geneva on April 4 to 6, 2011, on the basis of the following documents and the comments in this report:

Agapanthus	TG/AGAPA(proj.2)
Bougainvillea	TG/BOUGA (proj.3)
Canna	TG/CANNA (proj.6)
Camellia L. (ornamental)	TG/CAMEL (proj.3)
Eucalyptus (part of genus only)	TG/EUCAL (proj.5)
Hibiscus syriacus L.	TG/HIBIS(proj.5)
Torenia (*Torenia* L.)	TG/TOREN(proj.2)
Vriesea (*Vriesea* Lindl.)	TG/VRIES(proj.5)

92. The TWO agreed to discuss the following draft Test Guidelines at its forty-fourth session:

Aglaonema Schott.
Aloe L.
Campanula L.
Cosmos (*Cosmos* Cav.)*
Dianella (*Dianella* Lam. ex Juss.)*
Dianthus (Revision)*
Echinacea (*Echinacea* Moench)
Gladiolus (Revision) *
Hebe Comm. ex Juss.
Heuchera and Heucherella*
Hosta

* indicates possible final draft Test Guidelines

Lilac (*Syringa* L.)
Lobelia erinus L.
Lomandra Labill. *
Mandevilla*
Oncidium Sw.*
Osteospermum (Revision)
Phalaenopsis (Revision) *
Tree Peony (*Paeonia* Sect. *Moutan*) *
Zinnia L.

Guidance for drafters of Test Guidelines

93. The TWO received a presentation on the assistance provided on the UPOV TG webpage for drafters of Test Guidelines, a copy of which is provided as Annex VI to this document. The TWO heard that, at its forty-sixth session, the TC had agreed on the plans of the Office of the Union to make copies of all previous adopted versions of Test Guidelines available on the first restricted area of the UPOV website.

94. The TWO agreed that it would be helpful to provide a blank grid for shapes in the TG drafters version of the TG Template.

Date and place of the next session

95. At the invitation of the expert from Japan, the TWO agreed to hold its forty-fourth session in Fukuyama City, Hiroshima Prefecture, Japan, from November 7 to 11, 2011.

96. The TWO noted that Australia (TWO) and New Zealand (TWF) had expressed an interest to jointly host, the TWO and TWF sessions in April / May 2013 and expressed its support for that offer. The TWO noted the need to consider an appropriate timing for the TWO session in 2012 with regard to the timing of the sessions in 2011 and 2013.

Chairperson

97. The TWO agreed to propose to the TC that it recommend to the Council to elect Mr. Nik Hulse (Australia) as the next chairperson of the TWO.

Future program

98. The TWO 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:
5. TGP documents
6. Variety denominations
7. Information and databases
   (a) UPOV information databases
   (b) Variety description databases
   (c) Exchangeable software
   (d) Electronic application systems
8. Assessing uniformity by off-types on the basis of more than one sample or sub-samples
9. DUS examination of seed-propagated varieties of Papaya
10. Experiences with new types and species
11. Proposals for Partial Revision/Corrections of Test Guidelines (if appropriate)
12. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee
13. Discussion on draft Test Guidelines (Subgroups)
14. Recommendations on draft Test Guidelines
15. Guidance for drafters of Test Guidelines
16. Date and place of next session
17. Future program
18. Adoption of the Report of the session (if time permits)
19. Closing of the session

99. With regard to agenda item 3(a), the TWO agreed to invite experts to submit written reports to the Office of the Union in advance of the TWO session in order that a document could be prepared by the Office of the Union. In making that suggestion, the TWO noted that experts would still be invited to make a brief oral summary report at the session and would also be encouraged to make reports under agenda item 10. “Experiences with new types and species”

Technical visit

100. On Wednesday, September 22, 2010, the TWO visited Concentradora Nacional de Plantas de Ornato, SPR de RL (CONAPLOR), in Cuautla, Morelos State, where the TWO was welcomed by the Mr. Gerardo Hernández Morales, President, Mr. Carlos Zuñiga, Manager, and given a tour of the facilities by Mr. Fernando Aguerrevere Devereax. The visit was organized by SNICS in coordination with the President of the Ornamental Growers Council of the State of Morelos.

101. The TWO adopted this report at the close of the session.

[Annexes follow]

ANNEX I

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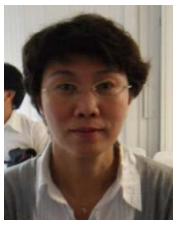

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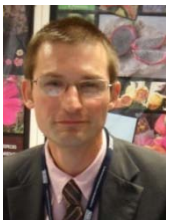

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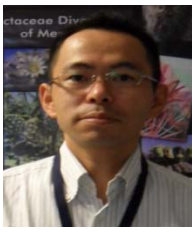

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SOUTH AFRICA

Adriaan J. DE VILLIERS, DUS Examiner, Division of Variety Control, Directorate: Genetic Resources, National Department of Agriculture, Forestry & Fisheries, Private Bag X11, Gezina 0031
(tel.: +27 83 4158080 fax: +27 83 2359378 e-mail: riaandv@daff.gov.za)

UNITED KINGDOM

Elizabeth M.R. SCOTT (Miss), Head of Ornamental Crops, National Institute of Agricultural Botany (NIAB), Huntingdon Road, Cambridge CB3 0LE
(tel.: +44 1223 342399 fax: +44 1223 342229 e-mail: elizabeth.scott@niab.com)

II. ORGANIZATIONS

INTERNATIONAL COMMUNITY OF BREEDERS OF ASEXUALLY REPRODUCED ORNAMENTAL AND FRUIT PLANTS (CIOPORA)

Nellie HOEK (Ms.), c/o Royalty Administration International, Naaldwijkseweg 350,
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III. OFFICER

CHAIRPERSON

Andrea MENNE (Ms.), Chairperson

IV. OFFICE OF UPOV

Rolf JÖRDENS, Vice Secretary-General, International Union for the Protection of New Varieties of Plants (UPOV), 34, chemin des Colombettes, 1211 Geneva , Switzerland
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Peter BUTTON, Technical Director, International Union for the Protection of New Varieties of Plants (UPOV), 34, chemin des Colombettes, 1211 Geneva , Switzerland
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[Annex II follows]

ANNEX II

OPENING SPEECH OF THE TECHNICAL WORKING PARTY SESSIONS FROM THE INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS (UPOV): ORNAMENTAL PLANTS AND FOREST TREES AND FRUIT CROPS[1]

Bernardo Pastrana Gomez, Agricultural and Rural Development Minister from Morelos State. Thank you very much for your warm reception and our acknowledgement to Governor Marco Adame for his strong support to agriculture.

Peter Button, Technical Director from the International Union for the Protection of New Varieties of Plants (UPOV).

Andrea Menne, Chairwoman of the Technical Working Party for Ornamental Plants and Forest Trees, Welcome to our country.

Luis Granada Carreto, President of Morelos Ornamental Producers, A.C. (POMAC).

Distinguished Researchers and Growers,

Ladies and Gentlemen who come from other countries and from Mexico,

Good morning everyone.

On behalf of the Minister of Agriculture, Livestock, Rural Development, Fisheries and Food, Francisco Mayorga, please receive a warm welcome and our acknowledgement to research institutions, growers and authorities who organized this meeting.

It is a great honour for Mexico to host the meeting of the Technical Working Party for Ornamental Plants and Forest Trees that is beginning today, and for Fruit crops that will take place the following week. Both of them will count with experts and authorities from seventeen countries and representatives from three International Organizations.

Undoubtedly, these meetings will offer the opportunity to share knowledge and experiences that will strength the plant breeders' rights system, in our country and at international level. Plant breeder's rights make stronger productive activities and promote transference and generation of new technologies for the agricultural sector competitiveness.

[1] Speech given by Mariano Ruiz-Funes Macedo, Vice -Minister of Agriculture, in the opening session of the Technical Working Party for Ornamental Plants and Forest Trees of the International Union for the Protection of New Varieties of Plants (UPOV), September 20 – 24; and Technical Working Party for Fruit Crops, September 27 – October 1.

In Mexico, varieties registry dates back to 50 years, when Seed Law created some Institutions that we have nowadays, such as the National Institute of Agricultural, Livestock and Forestry Research (INIFAP) which is the main public breeder of plant varieties in Mexico, and the National Service of Seed Inspection and Certification (SNICS), which is a body from the Ministry of Agriculture, to whom corresponds variety registry and the implementation of an efficient system of plant breeders' rights.

When the Federal Law of Plant Varieties was enacted, Mexico moves forward to the harmonization of the criteria for plant variety protection. The adoption of UPOV Convention in 1997 was one more step in relation to the development of technical guidelines for varieties registry; especially in species where Mexico is centre of origin and diversity.

As a result to the support from different institutions, breeders and farmers, we have built and strengthened our capacities on plant variety protection. This effort has been complemented with an increasing and active participation of our country in UPOV.

Under SNICS leadership, terms for granting titles were reduced, with the cooperation of national and international research institutions; it has been strength the enforcement and there have been solved infringements to protected varieties, particularly on ornamental plants, which have generated royalty payments to the breeder.

Hence, Mexican Law provides protection to those who obtain and develop new plant varieties; this scheme is a necessary condition in order to promote investment, research and technological development in Mexico.

It is a permanent task to strength the national capacity for breeders' rights protection. The participation of Mexican experts in the Technical Working Parties from UPOV has increased knowledge in this area; therefore, for Mexico it is relevant to host Technical Working meetings from UPOV.

Within this framework, we collaborate with other countries in order to develop test guidelines for Mexican species such as: cactus pear, avocado, hawthorn, papaya, cherimoya, dahlia, marigold, poinsettia, husk tomato and amaranth. All of them have been adopted by UPOV as international harmonized guidelines for variety registry.

On these currently working sessions, there will be analyzed cacao, dragon fruit and cosmos; they were developed by Mexican experts for their discussion in cooperation with other countries. These actions contribute to Mexico to increase investment in ornamental and fruit breeding, and to get legal and technological tools that will promote research.

Another important task has been to provide information and training to growers about plant variety protection as a tool to promote research and technology transfer on plant varieties, that would increase their competitiveness and to improve their welfare. Your visit to our country is an excellent opportunity for you to appreciate the diversity and outstanding environmental conditions of Mexico.

We are the fourth mega-diverse country from the world. We are working for conservation and sustainable use of our biodiversity, as the basis to increase productivity and competitiveness for food and agriculture.

Particularly, Morelos State has important genetic resources and a great potential for flower production, where technology has a leading role to develop new opportunities to add value within the global market.

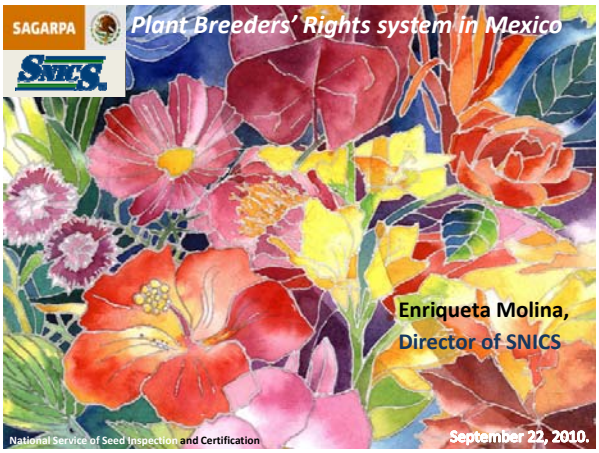
With the strong support from the ornamental and market chain association, and particularly from growers, the plant variety protection system will provide certainty and a higher competitiveness in the sector.

I would like to thank UPOV Technical Working Parties Organizing Committee and especially to all participants for sharing their knowledge in benefit of breeders, farmers and society.

I wish you a successful meeting. Thank you very much for your kind attention.

[Annex III follows]

PLANT VARIETY PROTECTION IN MEXICO



Background

SNICS

-Body of the Ministry of Agriculture (SAGARPA)
-Created by Seed Law (1961)

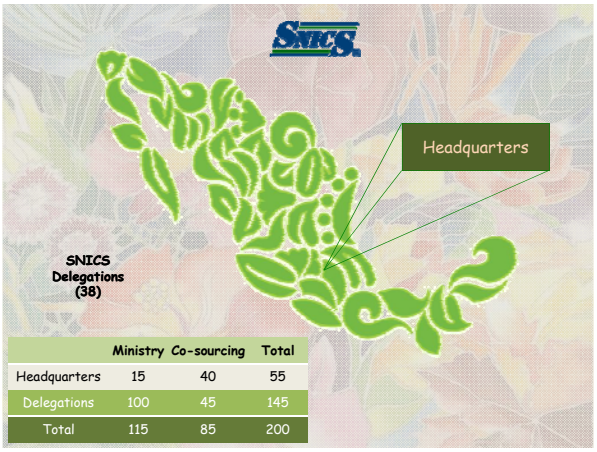
Mission

To establish and keep updated the system to regulate and promote seed, plant varieties registry and plant genetic resources issues, collaborating to increase agricultural productivity and its competitiveness, according to international standards

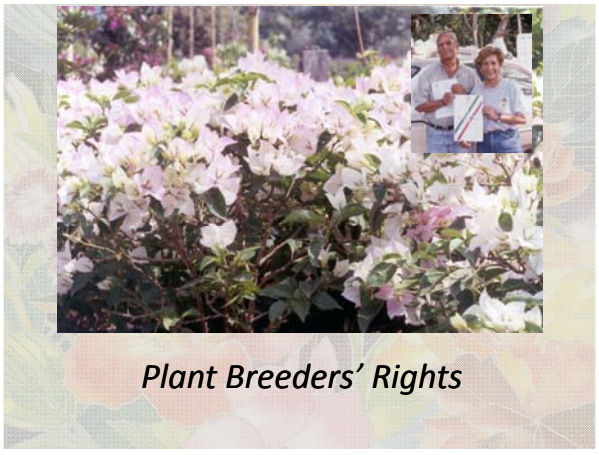
Activities

- Seed testing, inspection and certification
- Plant breeders' rights
- Plant genetic resources

SINAREFI
PGR National System



	Ministry	Co-sourcing	Total
Headquarters	15	40	55
Delegations	100	45	145
Total	115	85	200



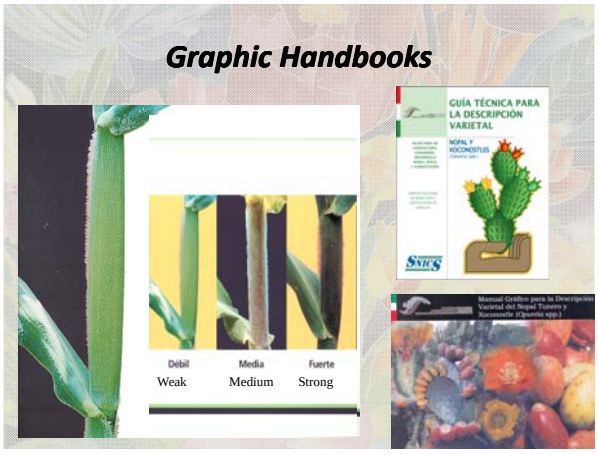
Plant Breeders' Rights

- PVP Law (1996)
- 1978 Act (UPOV member since 1997, #34)
- Protection to all genera and species
- Farmer privilege (exception to PBR) → only for agricultural crops
- Information provided by the own breeder
- Cooperation CPVO, FR, NL (DUS testing results)
- Plant Variety Committee
  → technical working groups
  - ➢specialists for each genus or species (including breeders and growers)
  - ➢agreements between SNICS and several research and academic institutions
- Reference collections: agricultural crops, Opuntia (cactus pear and xoconostles), avocado, strawberry and rose.

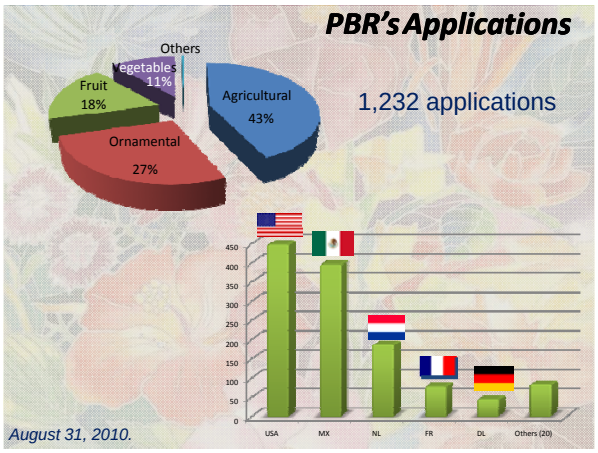
PLANT VARIETY PROTECTION IN MEXICO

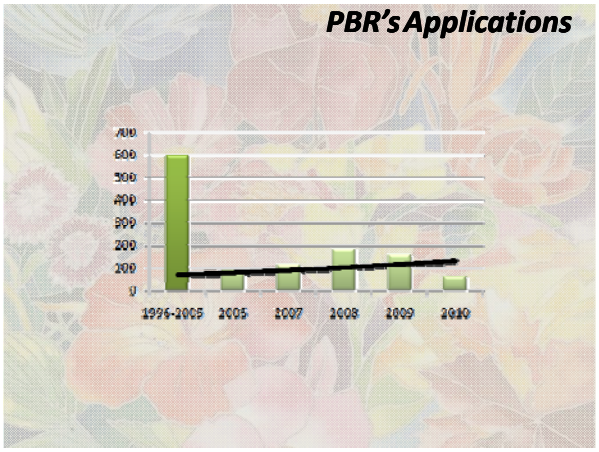
UPOV- Mexico

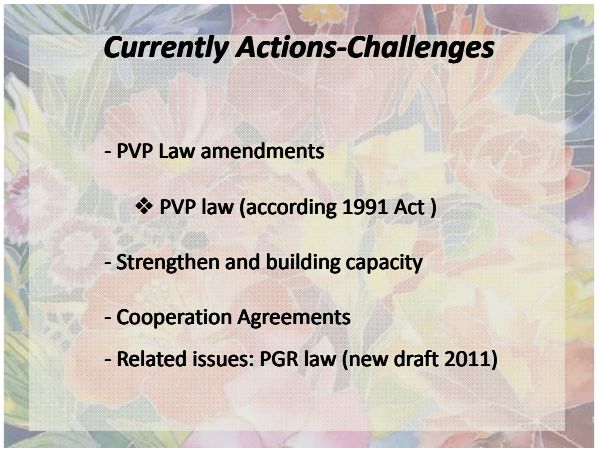
- TWP's Venue: TWA (2001), TWC (2002), TWV (2006), TWO&TWF (2010)
- Presidency of the Council (2003-2006)
- TWF Chairperson (2006-2008)
- TC Vice-President (2011-2013)
- Collection of reference (husk tomato, PO; amaranth, HU, BR)
- Test Guidelines: cactus pear, avocado, dahlia, tagetes, husk tomato, amaranth, papaya, hawthorn, dragon fruit, chayote…
- Distance learning (tutors), workshop COYD-COYU (2002), DUS workshop




Graphic Handbooks
MANUAL GRÁFICO PARA LA DESCRIPCIÓN VARIETAL DEL MAÍZ (ZEA MAYS L.)
MANUAL GRÁFICO PARA LA DESCRIPCIÓN VARIETAL DE CEMPASÚCHIL (TAGETES L.)
Manual Gráfico para la Descripción Varietal del Nopal Tunero y Xoconostle (Opuntia spp.)
MANUAL GRÁFICO PARA LA DESCRIPCIÓN VARIETAL DE NOCHEBUENA
MANUAL GRAFICO PARA LA DESCRIPCIÓN VARIETAL EN AMARANTO
GRAPHIC HANDBOOK FOR VARIETY DESCRIPTION IN AMARANTH
MANUAL GRAFICO PARA LA DESCRIPCIÓN VARIETAL EN MAIZ
HANDBOOK FOR VARIETY DESCRIPTION IN MAIZE
SNICS
SAGARPA


PBR's Applications
Others
Vegetables 11%
Fruit 18%
Agricultural 43%
Ornamental 27%
1,232 applications
450
400
350
300
250
200
150
100
50
0
USA
MX
NL
FR
DL
Others (20)
August 31, 2010.


PBR's Applications
600
500
400
300
200
100
0
1996-2005
2005
2007
2008
2009
2010


Currently Actions-Challenges
- PVP Law amendments
❖ PVP law (according 1991 Act)
- Strengthen and building capacity
- Cooperation Agreements
- Related issues: PGR law (new draft 2011)

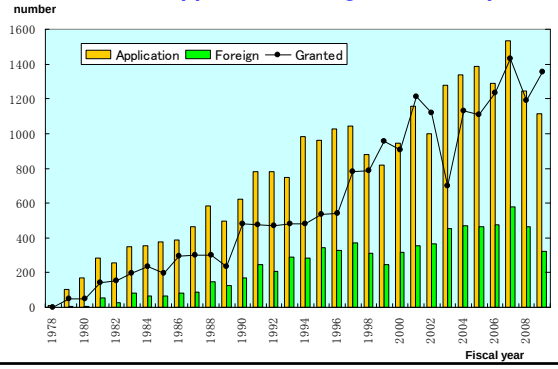

SNICS
MÉXICO 2010
GOBIERNO FEDERAL
SAGARPA
Thank you for your kind attention.
http://www.sagarpa.gob.mx/snics
http://www.sinarefi.org.mx
enriqueta.molina@snics.gob.mx
enriqueta.molina@sagarpa.gob.mx
We hope you are enjoying your stay in Mexico!!
National Service of Seed Inspection and Certification
September 22, 2010.


UPOV Technical Working Parties Organizing Committee– Mexico 2010

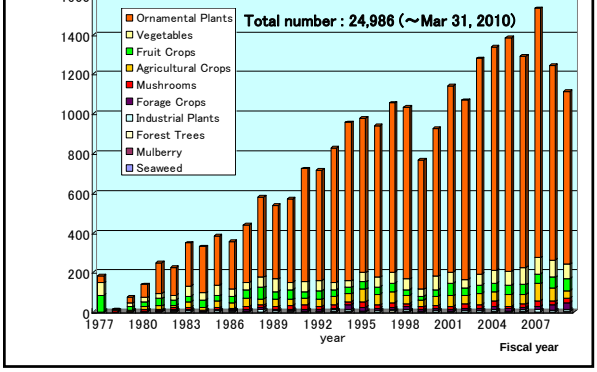

Staff


UPOV-TWO: Cuernavaca, Mor., Mexico; September 2010

Number of application and granted in Japan

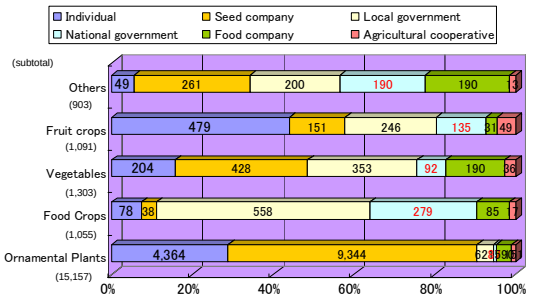


Application number of Japan by crop



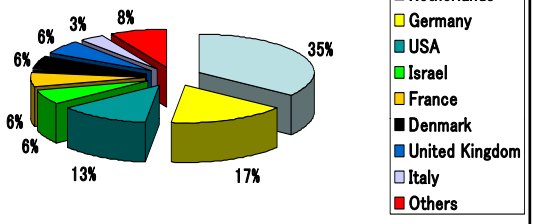
Registration number of Japan by breeder

(～March 31,2010)



Application bred in foreign countries

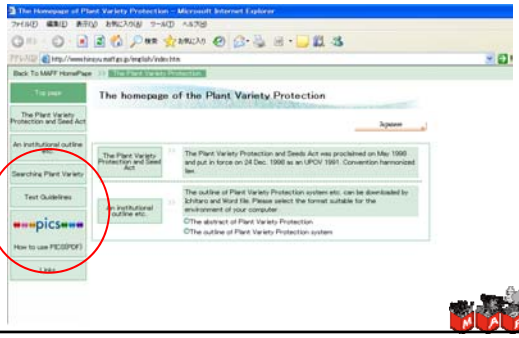
Total Number: 7,806（～March 31, 2010）



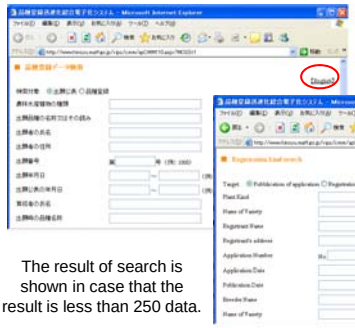
	2005FY	2006FY	2007FY	2008FY	2009FY
1	Netherlands 141	Netherlands 156	Netherlands 209	Netherlands 121	Netherlands 105
2	USA 99	Germany 77	U.S.A 100	Germany 85	Germany 80
3	Germany 44	Israel 58	Germany 98	USA 63	USA 30
Total number	463	474	578	463	322

Japanese PVP Office web-site
Top page in English

http://www.hinsyu.maff.go.jp/english/index.htm



Japanese PVP Office web-site
search for plant varieties

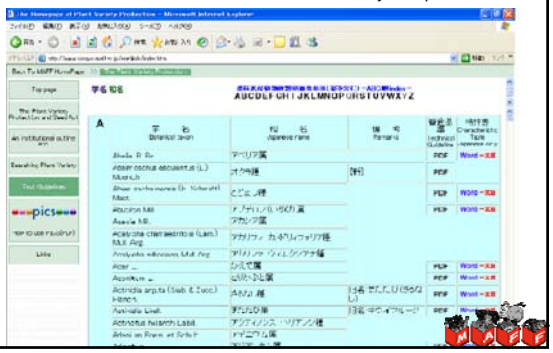


At the first Japanese page is shown. Click English, then English page is shown.

The result of search is shown in case that the result is less than 250 data.

Japanese PVP Office web-site
Test guidelines

There are about 600 TGs. Some TGs are only in Japanese.



Japanese PVP Office web-site
search for plant varieties by flower color

The data of PICS is increasing now.

How to use PICS is shown at the banner on the top page.

UPOV

RECENT DEVELOPMENTS IN UPOV

UPOV

OVERVIEW

- UPOV Membership
- UPOV people
- Information materials
- Seminar on DUS testing
- Test Guidelines
- Other developments
  - United Nations
  - Second World Seed Conference
  - UPOV Open Day

UPOV

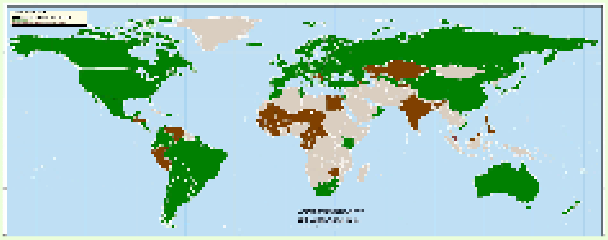
MEMBERSHIP OF UPOV

68 Members
(67 States and the European Union)

1991 Act		
Slovakia	June 12, 2009	
Laws examined	**Council session**	**Advice**
Oman	October 22, 2009	positive
Guatemala	October 22, 2009	positive
New Members		
Oman	November 22, 2009	

UPOV

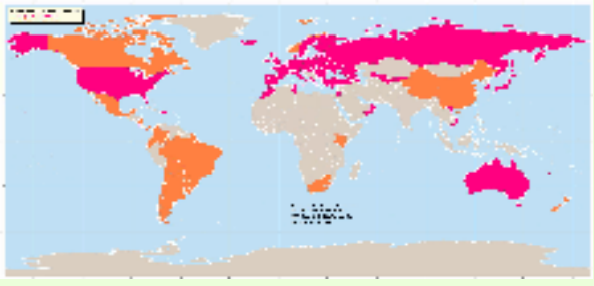
Members of UPOV (green) and initiating States and organizations (brown)



Initiated the Procedure
17 States
1 intergovernmental organization

UPOV

UPOV Membership Territories covered



UPOV

COUNCIL

ELECTIONS

for a term of three years ending in 2012

President of the Council

Mr. Keun-Jin Choi
(Republic of Korea)

Vice-President of the Council

Ms. Kitisri Sukhapinda
(United States of America)

UPOV

TECHNICAL COMMITTEE

proposals

President of the Technical Committee

Mr. Joël Guiard
(France)

Vice-President of the Technical Committee

Mr. Alejandro Barrientos-Priego
(Mexico)

UPOV

COUNCIL

APPOINTMENT
from December 1, 2010

Vice Secretary-General

Mr. Peter John Button

PROMOTION
from December 1, 2010

Director

Mr. Raimundo Lavignolle

UPOV

VACANCY

SENIOR TECHNICAL COUNSELLOR

(Grade P5)

UPOV

INFORMATION MATERIALS

UPOV

COUNCIL

INFORMATION MATERIALS ADOPTED:

UPOV/INF/12/2 (Revision)
Explanatory Notes on **Variety Denominations** under the UPOV Convention

(Revised classes:
Class 202 Megathyrsus, Panicum, Setaria and Steinchisma
Class 211 Mushrooms)

UPOV/INF/13/1
Guidance on **How to Become a Member of UPOV**

UPOV/INF/14/1
Guidance for Members of UPOV on **How to Ratify, or Accede to, the 1991 Act of the UPOV Convention**

UPOV

COUNCIL

INFORMATION MATERIALS ADOPTED (continued): :

Guidance for the preparation of laws based on the 1991 Act of the UPOV Convention (document UPOV/INF/6/1)

PART I: *EXAMPLE TEXT FOR ARTICLES*
PART II: *NOTES BASED ON INFORMATION MATERIALS*

(available in English, French, German, Spanish, Arabic, Chinese and Russian)

COUNCIL

INFORMATION MATERIALS ADOPTED (continued):

Explanatory Notes on:

UPOV/EXN/GEN/1	Genera and Species to be Protected
UPOV/EXN/NAT/1	National Treatment
UPOV/EXN/NOV/1	Novelty
UPOV/EXN/PRI/1	Right of Priority
UPOV/EXN/PRP/1	Provisional Protection
UPOV/EXN/EDV/1	Essentially Derived Varieties
UPOV/EXN/EXC/1	Exceptions to the Breeder's Right
UPOV/EXN/NUL/1	Nullity of the Breeder's Right
UPOV/EXN/CAN/1	Cancellation of the Breeder's Right
UPOV/EXN/ENF/1	Enforcement of Breeders' Rights

…under the 1991 Act of the UPOV Convention

(also incorporated in document INF/6/1)

Administrative and Legal Committee Advisory Group (CAJ-AG)

Explanatory Notes

(a) UPOV/EXN/BRD: Definition of Breeder

(b) UPOV/EXN/HRV: Harvested Material

(c) Essentially Derived Varieties (revision)

Matters referred by the CAJ to the CAJ-AG:

(a) objectives of the possible development of a document on the exhaustion of the breeder's right

(b) objectives of the possible development of a document on the notion of "own holdings"

(c) matters arising after the grant of a breeder's right

COUNCIL

TGP DOCUMENTS ADOPTED

TGP/12/1: Guidance on Certain Physiological Characteristics

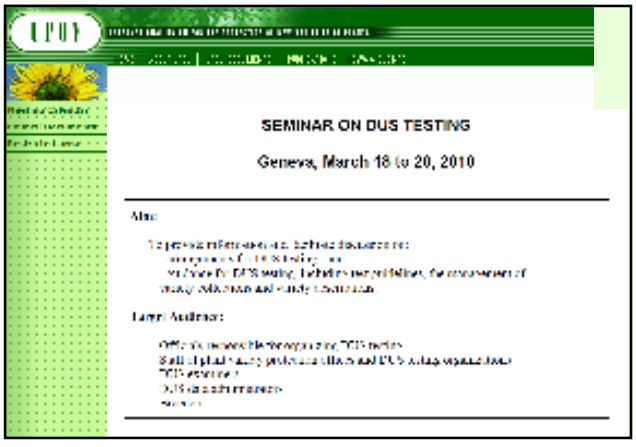
TGP/13/1: Guidance for New Types and Species

TGP/0/2 (Revision):
List of TGP Documents and Latest Issue Dates

TG/1/3 General Introduction

"Associated" TGP Documents

Ref.	Title	
TG/00	List of TGP Documents and Latest Issue Dates	
TGP/1	General Introduction With Explanations	
TGP/2	List of Test Guidelines Adopted by UPOV	
TGP/3	Varieties of Common Knowledge	
TGP/4	Constitution and Maintenance of Variety Collections	
TGP/5	Experience and Cooperation in DUS testing	
TGP/6	Arrangements for DUS testing	
TGP/7	Development of Test Guidelines	for revision
TGP/8	Trial Design and Techniques Used in the Examination of DUS	for adoption
TGP/9	Examining Distinctness	
TGP/10	Examining Uniformity	
TGP/11	Examining Stability	
TGP/12	Special Characteristics	Standard wording
TGP/13	Guidance for New Types and Species	
TGP/14	Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents	for adoption
TGP/15	New Types of Characteristics	



Seminar on DUS Testing

Session 1:	Arrangements for DUS Testing
Session 2:	Breeders' Perspective on DUS Testing
Session 3:	Role of the Technical Committee and the Technical Working Parties
Session 4:	DUS Training provided by members of the Union
Session 5:	Guidance for DUS Testing
Session 6:	Management of Variety Collections
Session 7:	Developing Variety Descriptions and their Use for Distinctness and the Management of Variety Collections

(a) Transformation of Observations and Measurements into Notes for Distinctness and for Variety Descriptions

(b) Use of Variety Descriptions Provided by Breeders

Seminar on DUS Testing: TC Chairman conclusions

- "UPOV members have used a range of approaches for DUS testing, as envisaged within the UPOV Convention, in order to provide an efficient and effective system for breeders according to their circumstances.
- "Cooperation is crucial for all UPOV members and will need to intensify in future to meet the expansion of the UPOV system. There is a need to:
  - continue to work on guidance documents (TGP documents, Test Guidelines) and exchangeable software (COYT, GAIA etc.) to promote harmonization,
  - enhance efficiency of cooperation, through
    - maintaining standard forms, agreed fee for DUS reports, etc.;
    - the use and further development of tools, such as the GENIE database;
    - increasing exchange of information between UPOV members on their newly acquired experience;
    - exchanging variety descriptions; and
    - coordinating resources offered by members of the Union (e.g. training, helpdesks, *ad hoc* expert advice).
- "The Technical Committee and Technical Working Parties are an important means of training and exchanging information in an expert forum, and additional benefits can be achieved through preparatory workshops and associated training events.
- "It is important to continue to explore methods to address the management of variety collections, e.g. the potential role for molecular techniques.
- "The organization of such seminars, from time-to-time, provides a valuable means of sharing broad overviews and new developments and also of indentifying areas for possible future guidance (e.g. treatment of data for distinctness and descriptions, understanding of "similar varieties", status of the variety descriptions).
- "UPOV encourages breeders' organizations to contribute to UPOV's technical work and encourages a constructive dialogue on relevant issues at an early stage.
- "Participation by experts of potential future members of the Union in the Technical Committee and Technical Working Parties, as observers, was encouraged as a principal means of achieving harmonization with the UPOV system and facilitation of future cooperation on becoming UPOV members."

Test Guidelines adopted by Technical Committee in 2010

New Test Guidelines:

Document	English	Drafter	TWP
TG/259/1	Agaricus Mushroom, Button Mushroom	QZ	TWV
TG/BUDDL	Buddleia, Butterfly-bush	FR	TWO
TG/FIG	Fig	ES	TWF
TG/GAURA	Gaura	GB	TWO
TG/GYPSO	Baby's Breath, Gyp, Gypsophila	IL/QZ	TWO
TG/PAPAY	Papaya, Papaw	MX	TWF
TG/260/1	Pearl Millet	BR	TWA
TG/258/1	Sweet Potato	KR	TWA/TWV

Test Guidelines adopted by Technical Committee in 2010

Document	English	Drafter	TWP
Revisions:			
TG/53/7	Peach	FR	TWF
TG/59/7	Lily	NL	TWO
TG/116/4	Black Salsify, Scorzonera	NL	TWV
TG/123/4	Banana	BR	TWF
TG/130/4	Asparagus	NL/DE	TWV
TG/133/4	Hydrangea	FR	TWO
Partial revisions:			
TG/11/8 Rev.	Rose		TWO
TG/176/4 Rev.	Osteospermum		TWO

Other Test Guidelines considered by Technical Committee in 2010

Status	Document No.	English	Drafter	TWP
Referred back to TWO	TG/VRIES	Vriesea	NL	TWO

Test Guidelines corrections notified to Technical Committee in 2010

Status	Document No.	English	TWP
Published	TG/26/5 Corr.2	Chrysanthemum	TWO
Published	TG/28/9 Corr.	Zonal Pelargonium, Ivy-Leaved Pelargonium	TWO

Test Guidelines

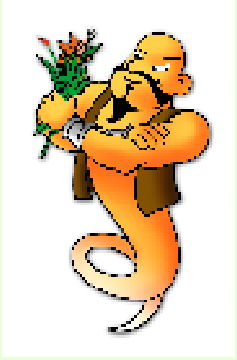
- **264 Test Guidelines** adopted
- **2,250 genera and species** for which UPOV members have practical DUS experience
- **>2,750 genera and species** with varieties examined for PBR

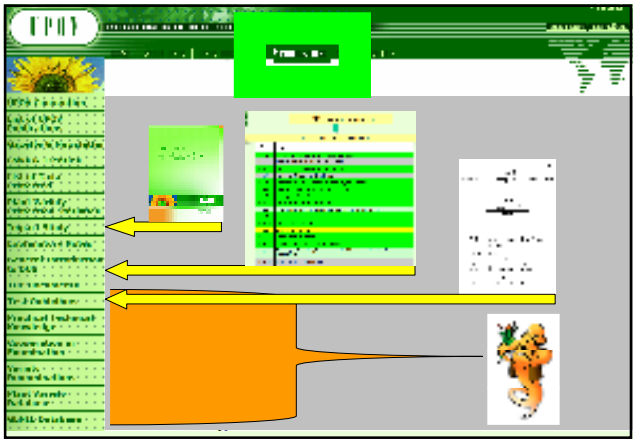
GENIE Database

Variety denomination related information
Protection offered by UPOV members

DUS information

- UPOV Test Guidelines
- practical experience of UPOV (document TC/46/4)
- cooperation in DUS examination (document C/43/5)





UPOV

OTHER DEVELOPMENTS

UPOV

Report of the Special Rapporteur on the Right to Food

Note presented to the Third Committee of the General Assembly of the United Nations on October 21, 2009

see http://www.upov.int/en/about/key_issues.htm

UPOV

Second World Seed Conference

UPOV

Second World Seed Conference

"Follow-up"

Project in a group of model countries with a view to developing an enabling environment to encourage plant breeding and the production and distribution of high quality seed for the benefit of farmers.

UPOV

UPOV OPEN DAY

TEST GUIDELINES FOR ADOPTION BY THE TECHNICAL COMMITTEE

2.2.6 STEP 6 Submission of Draft Test Guidelines by the Technical Working Party

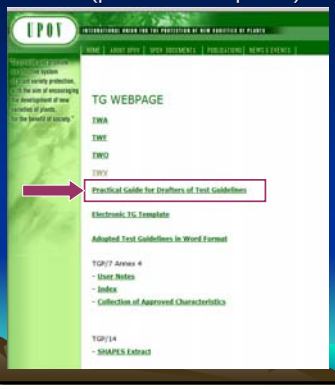
Once the TWP has agreed to submit particular draft Test Guidelines to the Technical Committee, **the Office will prepare the necessary documents (i.e. the Leading Expert should NOT prepare a new draft TG)**

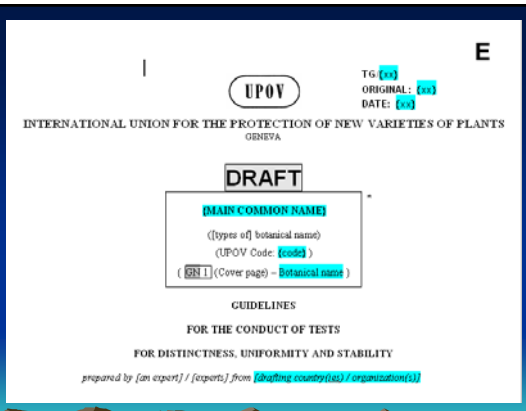
Where the amendments requested by the TWP require **further information** to be provided to the Office by the Leading Expert, this should be provided **within six weeks of the TWP session**, or according to a deadline agreed by the Chairperson of the TWP in conjunction with the Office. If specified by the TWP, this information must first be agreed by all interested experts. …

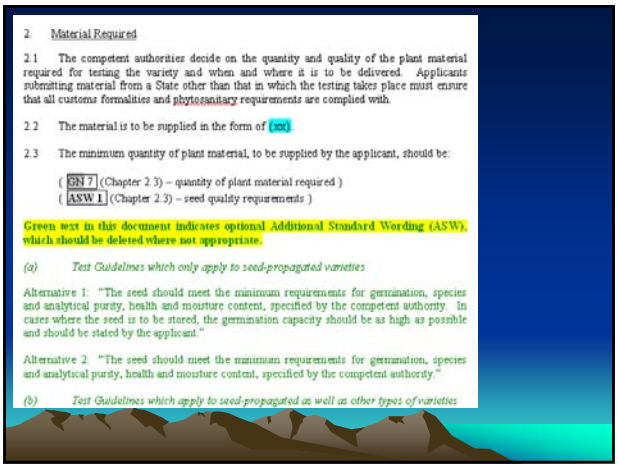
TEST GUIDELINES FOR THE NEXT TWP SESSION

TG Drafters' Webpage

(password required)






2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of [SEX].

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

(QN 7) (Chapter 2.3) – quantity of plant material required)
(ASW 1) (Chapter 2.3) – seed quality requirements)

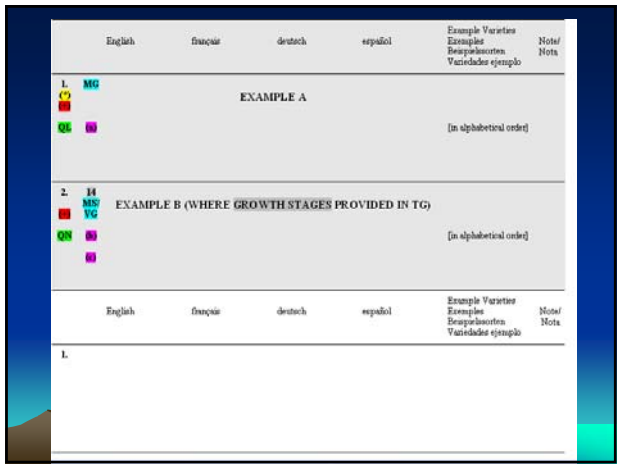
Green text in this document indicates optional Additional Standard Wording (ASW), which should be deleted where not appropriate.

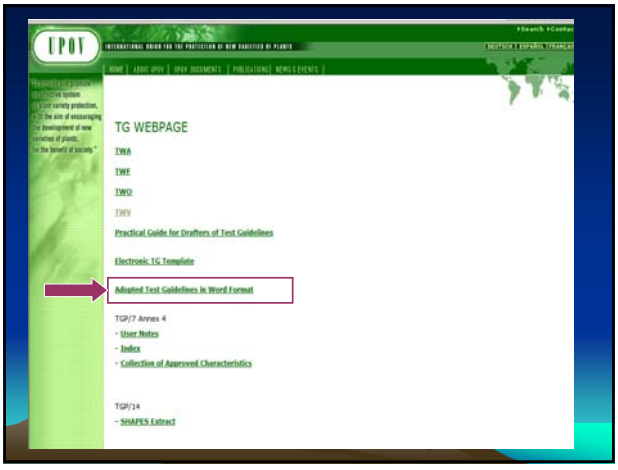
(a) Test Guidelines which only apply to seed-propagated varieties

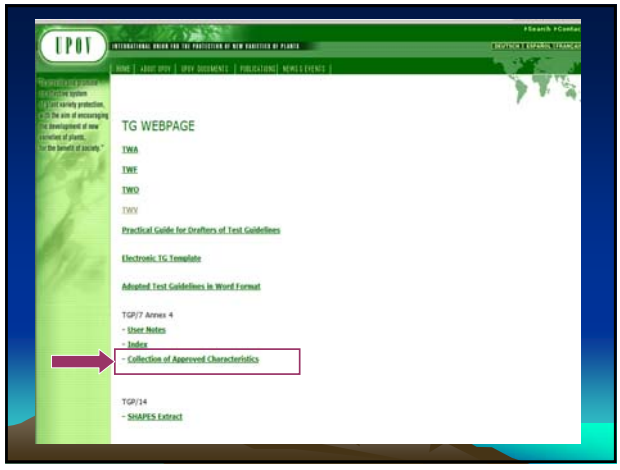
Alternative 1: "The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should be stated by the applicant."

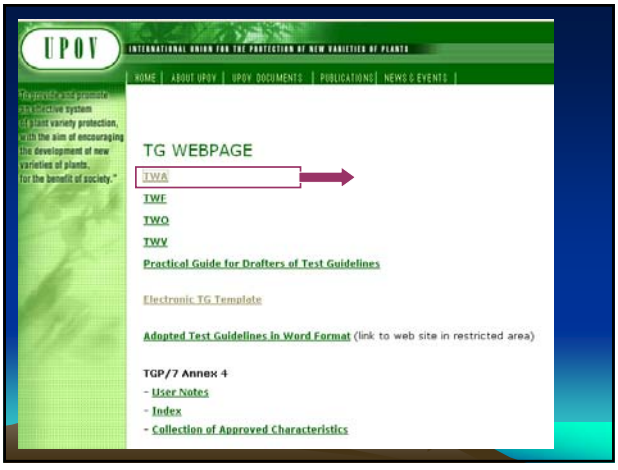
Alternative 2: "The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority."

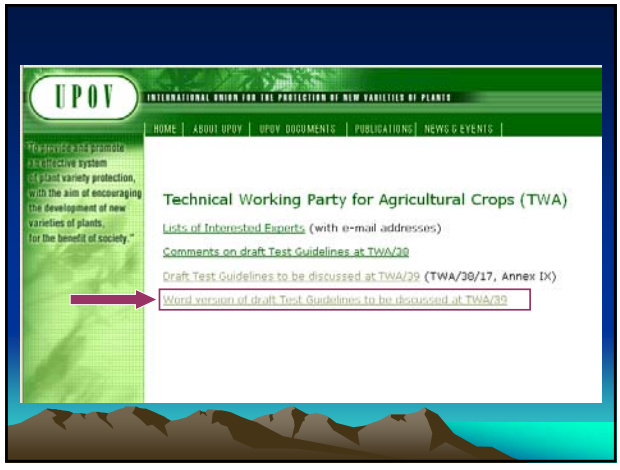
(b) Test Guidelines which apply to seed-propagated as well as other types of varieties


	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. QN MG	EXAMPLE A					
QL					[in alphabetical order]	
2. QN MS VG	EXAMPLE B (WHERE GROWTH STAGES PROVIDED IN TG)					
QN					[in alphabetical order]	
	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.						










Technical Working Party for Agricultural Crops (TWA)
Word version of draft Test Guidelines to be discussed at TWA/39:
TG/57/7(proj.4) Flax, Linseed (Revision) (Linum usitatissimum L.)
TG/120/4(proj.2) Durum wheat (Revision) (Triticum durum Desf.)
TG/CAN_SAT(proj.3) Hemp (Cannabis sativa L.)
TG/FAGOP(proj.4) Buckwheat (Fagopyrum esculentum Moench)
TG/SETARIA(proj.4) Foxtail millet (Setaria italica (L.) P. Beauv.)
TG/SESAME(proj.5) Sesame
TG/UROCH(proj.4) Urochloa (Brachiaria)


THANK YOU

ANNEX VII

LIST OF LEADING EXPERTS

DRAFT TEST GUIDELINES TO BE SUBMITTED TO THE TECHNICAL COMMITTEE IN 2011

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

before November 5, 2010

Species	Basic Document	Leading expert(s)	Interested experts (States/Organizations)[1]
Agapanthus*	TG/AGAPA(proj.2)	Mr. de Villiers (ZA)	AU, GB, DK, IL, NL, NZ, QZ, Office
Bougainvillea*	TG/BOUGA (proj.3)	Mr. Hulse (AU)/ Mr. Jacobsen (DK)	BR, IL, JP. MX, NZ, QZ, ZA, Office
Canna*	TG/CANNA (proj.6)	Mrs. Jourdan (FR)	AU, BG, CN, HU, MX, NL, NZ, QZ, UA, ZA Office
Camellia L. (ornamental)*	TG/CAMEL (proj.3)	Prof. Dr. Jiyuan Li, Dr. Sui Ni (CN)	GB, KE, JP, KR, NZ, Office
Eucalyptus (part of genus only)*	TG/EUCAL (proj.5)	Mrs. de Moraes Aviani (BR) / Mr. Luo Jianzhong (CN)	AU, FR, IL, KE, QZ, ZA, Office
Hibiscus syriacus L.	TG/HIBIS(proj.5)	Mrs. Ok-Sun Kim (KR)	AU, BR, DE, GB, HU, IL, JP, KE, MX, QZ, UA, ZA, Office
Torenia (*Torenia* L.)*	TG/TOREN(proj.2)	Mr. Numaguchi (JP)	CA, DE, NZ, QZ, Office
Vriesea (*Vriesia* Lindl.)*	TG/VRIES(proj.5)	Mr. de Greef (NL)	BG, BR, CN, JP, NZ, QZ, ZA, Office

[1] for name of experts, see List of Participants

DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWO/44
(* indicates possible final draft Test Guidelines)
New draft to be submitted to the Office of the Union
before September 23, 2011

(Guideline date for Subgroup draft to be circulated by Leading Expert: July 29, 2011
Guideline date for comments to Leading Expert by Subgroup: August 26, 2011)

	Species	Basic Document	Leading expert(s)	Interested experts (States/Organizations)[2]
1.	*Aglaonema* Schott.	New	Mr. Numaguchi (JP)	AU, NL, NZ, QZ, ZA, Office
2.	*Aloe* L.	New	Mr. de Villiers (ZA)	AU, CN, DE, MX, NL, Office
3.	*Campanula* L.	New	Miss Scott (GB)	CA, CN, DK, JP, NL, NZ, QZ, ZA, Office
4.	Cosmos (*Cosmos* Cav.) *	TG/COSMOS (proj.2)	Mr. Mikuni (JP)	GB, HU, KR, MX, NZ, RO, Office
5.	Dianella (*Dianella* Lam. ex Juss.) *	TG/DIANE(proj.1)	Mr. Hulse (AU)	GB, NZ, QZ, ZA, Office
6.	Dianthus (Revision)*	TG/25/9(proj.3)	Mr. de Greef (NL)	BG, GB, IL, JP, KE, KR, MX, NZ, QZ, ZA, Office
7.	Echinacea (*Echinacea* Moench)	TG/ECNCE(proj.2)	Miss Scott (GB) / TWV Mrs. Borys (PL)	CA, CN, HU, NL, NZ, QZ, Office
8.	Gladiolus (Revision)*	TG/108/4(proj.4)	Mr. de Greef (NL)	BG, CN, IL, JP, KR, MX, PL, QZ, RO, UA, ZA, Office
9.	*Hebe* Comm. ex Juss.	TG/HEBE(proj.1)	Mr. Barnaby (NZ)	AU, CA, DE, DK, GB, NZ, QZ, ZA, Office
10.	Heuchera and Heucherella*	TG/HEUCH (proj.3)	Miss Scott (GB)	AU, CA, JP, NZ, QZ, Office
11.	Hosta	TG/HOSTA (proj.4)	Mr. de Greef (NL)	CN, GB, HU, JP, KR, QZ, UA, ZA, Office
12.	Lilac (*Syringa* L.)	TG/LILAC(proj.1)	Dr. Cui Hongxia (Ms.) (CN)	DE, FR, GB, JP, KR, PL, QZ, UA, Office
13.	*Lobelia erinus* L.	New	Mrs. Irving (CA)	DE, JP, ZA, Office
14.	*Lomandra* Labill.*	TG/LOMAN(proj.1)	Mr. Hulse (AU)	GB, NZ, QZ, ZA, Office

[2] for name of experts, see List of Participants

	Species	Basic Document	Leading expert(s)	Interested experts (States/Organizations)[2]
15.	Mandevilla*	TG/MANDE (proj.2)	Mr. de Greef (NL)	AU, IL, NZ, QZ, ZA, Office
16.	*Oncidium* Sw. *	TG/ONCID (proj.3)	Mr. Numaguchi (JP)	CN, KR, MX, NL, QZ, SG, Office
17.	Osteospermum (Revision)	TG/176/4Corr.	Ms. Menne (DE)	AU, CA, GB, JP, NL, QZ, ZA, Office
18.	Phalaenopsis (Revision) *	TG/213/2(proj.3)	Mr. de Greef (NL)	BG, BR, CN, KR, JP, MX, QZ, SG, Office
19.	Tree Peony (*Paeonia* Sect. *Moutan*) *	TG/PAEON (proj.3)	Prof. Wang Lianying (Ms.) Ms. Yuan Tao, Mrs. Zhang Xiuxin (CN)	BG, JP, NL, UA, Office
20.	*Zinnia* L.	New	Mr. Mejia Muñoz (MX)	CN, GB, IL, JP, Office

[End of Annex VII and of document]