



TC/40/5 Add.

ORIGINAL: English

DATE: May 21, 2004

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL COMMITTEE

Fortieth Session
Geneva, March 29 to 31, 2004

TGP DOCUMENTS

ADDENDUM

Document prepared by the Office of the Union

1. The document presents the updated version of Annexes I and II of document TC/40/5, incorporating the following amendments agreed by the Technical Committee (TC) at its fortieth session, held in Geneva from March 29 to 31, 2004:

Annex I: Structure of TGP/3, TGP/4 and TGP/9

The working title of TGP/4 to be “Constitution and Management of Reference Collections” (to be finalized at a later stage).

Annex II: Program for the Development of TGP Documents

TGP/5.8.2 “Guidance on the use of Interim Reports”: not to be developed at this time;

TGP/4 and TGP/9: individual sections within the documents to be listed.

[Annex I follows]

ANNEX I

STRUCTURE OF TGP/3, TGP/4 AND TGP/9

TGP/3: VARIETIES OF COMMON KNOWLEDGE¹

The Notion of Breeder and Common Knowledge²

TGP/4: MANAGEMENT AND CONSTITUTION OF VARIETY COLLECTIONS³

4.1 Criteria to Address Varieties of Common Knowledge

4.1.1 Introduction (relationship between varieties of common knowledge and variety collections)

4.1.2 The notion of risk in the establishment of variety collections⁴

4.1.3 Factors to be considered when establishing variety collections

- Types of variety (adaptation to growing conditions)

- Availability (plant material, data)

- Feasibility (annual or perennial varieties, type of propagation)

4.2 Maintenance of Variety Collections³

4.2.1 General

4.2.1.1 Collections of plant material (obtaining, verifying, maintaining, updating/renewing samples)

4.2.1.2 Data management

4.2.1.3 Access to plant material and data (e.g. restrictions on use, transfer agreement⁵)

4.2.2 Variety Collections of Perennial Species⁶

4.2.3 Cooperation in the Maintenance of Variety Collections

TGP 9: EXAMINING DISTINCTNESS

9.1 Introduction (overview of TGP/9 and relationship with TGP/3 and TGP/4)

9.2 Selecting Varieties for the Trial and Organizing the Trial

9.2.1 Grouping Characteristics⁷

9.2.1.1 Selecting grouping characteristics

9.2.1.2 Using grouping characteristics

9.2.2 The Use of “Phenotypic distance”

9.2.2.1 The notion of “Phenotypic distance”

9.2.2.2 The notion of “Distinctness plus”

9.2.2.3 Using phenotypic distance

9.2.2.4 Methodologies for using phenotypic distance⁸

9.2.2.4.1 The GAIA software

9.2.2.4.2 (Others)

9.3 Trial Organization

9.3.1 Number of Independent Growing Cycles

9.3.1.1 The notion of “independent” growing cycles (e.g. seasons, locations)

9.3.1.2 Basis for determining the number of independent growing cycles

9.3.2 Use of Multiple Locations in the Examination of Distinctness

9.3.2.1 Reasons for using more than one location

9.3.2.2 Use of information from multiple locations

- 9.4 Factors in the Choice of Methods for the Assessment of Distinctness⁹
 - 9.4.1 Introduction
 - 9.4.2 Type of Variety^{10, 11}
 - 9.4.2.1 Introduction (variation within a variety and distinctness assessment)
 - 9.4.2.2 Self-pollinated varieties
 - 9.4.2.3 Vegetatively propagated varieties
 - 9.4.2.4 Cross-pollinated varieties
 - 9.4.2.5 Hybrids¹²
 - (a) General
 - (b) Use of the parental formula
 - 9.4.2.6 Rootstocks (two sets of characteristics)
 - 9.4.3 Type of Characteristic¹³
- 9.5 Methods for the Assessment of Distinctness
 - 9.5.1 Introduction
 - 9.5.2 Visual Assessment
 - 9.5.2.1 Introduction (direct comparisons, use of standardized scales, etc.)
 - 9.5.2.2 Visual assessment and types of varieties/characteristics/data
 - 9.5.2.3 Use of randomized “blind” testing¹⁴
 - 9.5.3 Measurements¹²
 - 9.5.4 Statistical Methods
 - 9.5.4.1 Introduction
 - 9.5.4.2 COYD
 - 9.5.4.3 Long-term LSD¹⁵
 - 9.5.4.4 Others, etc.
- 9.6 Examples of Distinctness Assessment¹⁶
 - 9.6.1 Australia
 - 9.6.2 France
 - 9.6.3 Others, etc.

[Annex II follows]

¹ The TC agreed that the development of TGP/3 was a matter for the CAJ.

² Document C(Extr.)/19/2 Rev.

³ Amendment proposed by Mr. Guiard (Coordinator of TGP/4).

⁴ TWA: to eliminate the word “acceptable”.

⁵ Under development by the CAJ (see documents CAJ/49/2 and CAJ/49/3).

⁶ New title as for the last version of TGP/4.2; TWA: title to be amended to clarify that it addresses DUS trials where the age of the plants is different; TWO+TWF: need to elaborate the terms “permanent” and “variety collection” and to cover herbaceous species.

⁷ TWA: to reduce the number of sections.

⁸ TWA: to restructure one subsection for GAIA and keep open for future developments.

⁹ TWC: to change the title because the whole of TGP/9 concerns methods for the assessment of distinctness.

¹⁰ TWA+TWF+TWO: to keep variety types as in TG/1/3.

¹¹ TWA+TWC proposal to move Section “Examining Distinctness in Different Types of Varieties” to this place.

¹² TWA: new section proposed.

¹³ TWA: new section instead of “Criteria to decide”.

¹⁴ TWF: experts from DE, NZ and ZA will assist the Office in drafting this section.

¹⁵ TWC: new section proposed.

¹⁶ TWF+TWO: to amend the title to avoid any inference that there are different approaches.

TC/40/5 Add.
Annex II, page 2

Ref.	Title of document	Current approved * documents	Comments / Other relevant documents	Drafter (TWP)	Drafter (Name)	Interested Experts	Date for Draft to Office	2004						2005						2006							
								TC	TWV	TWC	TWA	TWO	TWF	TC-EDC	TC	CAJ	TWV	TWC	TWA	TWO	TWF	TC-EDC	TC	CAJ	TWPs		
TGP/09	Examining Distinctness (Coordinator: Office (RL))		TC/40/5	Office	RL			---	draft 1	draft 2	draft 3	draft 3	draft 4	draft 5	Adopt	Adopt	X										
TGP/09.1	Introduction				RL																						
TGP/09.2	Selecting Varieties for the Trial and Organizing the Trial				Mr. Guiard (FR) / Mr. Grégoire (FR)																						
TGP/09.3	Trial Organization				Mr. Grégoire (FR)																						
TGP/09.4	Factors in the Choice of Methods for the Assessment of Distinctness				Mr. Guiard (FR) / Mr. Schulte (DE) / Mrs. Rücker (DE)																						
TGP/09.5	Methods for the Assessment of Distinctness				Ms. Watson (GB)																						
TGP/09.6	Examples of Distinctness Assessment																										
TGP/10	Examining Uniformity (Coordinator: Office (RL))							---	---	---	---	---	---	draft 1	draft 2	draft 2	draft 3	draft 4	Adopt	Adopt	X						
TGP/10.1	Considering the Application of Statistical Methods			?		TWO		---	---	---	---	---	---														
TGP/10.2	Assessing Uniformity According to the Features of Propagation		TWA/30/11; TWF/32/13; TWO/34/12	TWC	Ms. Rücker (DE)		23-Apr-04	---	draft 3																		
TGP/10.3.1	Statistical Methods: COYU	TC/33/7	TWC/15/7; TWC/18/10	TWC	Ms. Watson (GB) / Mr. Roberts (GB)		23-Apr-04	---	draft 3																		
TGP/10.3.2	Statistical Methods: Off-Types	TC/34/5	TWC/14/4	TWC	Ms. Watson (GB) / Mr. Roberts (GB)		23-Apr-04	---	draft 3																		
TGP/10.3.3	Statistical Methods: Segregation Ratios			TWC	Mr. Law (GB)		30-Apr-04	---	---	draft 1	---	---	---														
TGP/11	Examining Stability (Coordinator: Office (PB))							---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/11.1	(The Examination of Stability and "Verification")																										
TGP/12	Special Characteristics (Coordinator: Office (PB/MT))							---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/12.1.0	Characteristics Expressed in Response to External Factors: Introduction (uniformity standards)							---	---	---	---	---	---	draft 1	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/12.1.1	Characteristics Expressed in Response to External Factors: Disease Resistance			TWV	Mr. Van Ettehoven (NL)		23-Apr-04	---	draft 3	---	---	---	---	draft 4	draft 5	---	---	---	---	---	---	---	---	---	---	---	draft 6
TGP/12.1.2	Characteristics Expressed in Response to External Factors: Chemical Response			TWA	Mr. Hossain (AU)		14-May-04	---	---	---	draft 2	---	---	---	---	---	---	draft 3	---	---	---	---	---	---	---	---	draft 4
TGP/12.1.3	Characteristics Expressed in Response to External Factors: Insect Resistance			TWA / TWV	Mr. Guiard (FR)	Mr. Hossain (AU)		---	draft 1	---	---	---	---	---	---	---	---	draft 2	---	draft 2	---	---	---	---	---	---	draft 3
TGP/12.2.1	Chemical Constituents: Protein Electrophoresis			TWA	Mr. Camlin (GB) / Mr. Guiard (FR)		01-Aug-04	---	---	---	---	---	---	draft 1	Approve	X	X	X	X	X	X	X	X	X	X	X	X
TGP/12.3	Examination of Combined Characteristics Using Image Analysis		TC/36/7/12B	? TWC				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/12.4	(Examination of Scent and Flavor Characteristics)																										
TGP/13	Guidance for New Types and Species (Coordinator: Mr. Kwakkenbos (CPVO))			TWO	Mr. Kwakkenbos (CPVO)	TWA: Mr. Camlin; TWF: Mr. Barnaby (NZ) / Mr. Barrientos-Priego (MX)	28-May-04	---	---	---	---	draft 1	---	---	---	---	---	---	---	draft 2	draft 2	draft 2	---	---	---	---	draft 3
TGP/14	Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents (Coordinator: Office (PB))							---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/14.1	Technical Terms		TC/36/7/18A	Office	PB			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/14.2	Botanical Terms:		TC/36/5 & TWF/34/5	TWF	Ms. Buitendag (ZA)	TWF: Ms. Lean (GB); Mr. Bergamini (IT); Mr. Barnaby (NZ)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	draft 1
	1. Plant shapes		TC/36/5 & TWF/34/5	TWF	Ms. Buitendag (ZA)	TWF: Ms. Lean (GB); Mr. Bergamini (IT); Mr. Barnaby (NZ)	04-Jun-04	---	---	---	---	---	draft 3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2. Hair types			TWF	Mr. Barnaby (NZ)		04-Jun-04	---	---	---	---	---	draft 2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3. Color			TWO	Ms. Menne (DE);		28-May-04	---	---	---	---	draft 2	draft 2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TGP/14.3	Statistical Terms		TWA/29/9	TWC / TWA	Mr. Hossain (AU) / Mr. Roberts (GB)		09-May-04	---	---	draft 2	---	---	---	---	---	---	---	---	---	draft 3	---	---	---	---	---	---	draft 4
TGP/15	New Types of Characteristics (Coordinator: Office)							---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

X - Document adopted

[End of Annex II and of document]