

TC/39/6 Add. ORIGINAL: English only DATE: June 18, 2003

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

# **TECHNICAL COMMITTEE**

# Thirty-Ninth Session Geneva, April 7 to 9, 2003

#### ADDENDUM TO THE PROGRAM FOR THE DEVELOPMENT OF TGP DOCUMENTS

Document prepared by the Office of the Union

1. During its thirty-ninth session, held in Geneva from April 7 to 9, 2003, the Technical Committee (TC) considered the program for the development of TGP documents set out in document TC/39/6. It agreed that:

"21. The TC confirmed that TGP/7 "Development of Test Guidelines" should continue to receive highest priority and that all TWPs should be invited to consider TGP/7 at their sessions in 2003. It also confirmed that TGP/4 "Management of Variety Collections," TGP/9 "Examining Distinctness" and TGP/10 "Examining Uniformity" should continue to receive the next highest priority. However, it considered that TGP/7 would take a substantial amount of time to be discussed and agreed that the TWPs should not be requested to consider TGP/4, TGP/9 or TGP/10 at their sessions in 2003. Nevertheless, it agreed that the flow diagram, in Annex I of document TC/39/6, showing the proposed restructuring of TGP/3, TGP/4 and TGP/9 should be elaborated and presented to the TWPs at their sessions in 2003. Furthermore, it agreed that TGP/3 should not be discussed further in the TC and should be a matter for the CAJ.

"22. It agreed that, during 2003, the Office should produce full drafts of TGP/4 and TGP/9, based on the existing information in the individual sections and the restructuring set out in Annex I of document TC/39/6, to ease the consideration of these documents by the TWPs at their sessions in 2004. With regard to other TGP documents, the TC agreed that the TWPs should continue to discuss drafts of those documents for which they were responsible as far as time allowed.

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"23. The TC agreed with the proposal in document TC/39/6 that drafts of TGP/5 "Experience and Cooperation in DUS Testing," TGP/6 "Arrangements for DUS Testing" and TGP/12.2.1 "Chemical Constituents: Protein Electrophoresis" could be submitted to the TC, at its session in Spring 2005, without discussion in the TWPs.

"24. It was agreed that the Office should provide an updated program for the development of TGP documents in accordance with this approach and that this program should be circulated to the TC and TWPs."

2. In accordance with the approach agreed by the TC, the Office of the Union has elaborated the flow diagram (reproduced in Annex I) showing the proposed restructuring of TGP/3, TGP/4 and TGP/9 in Annex II of this document. The updated program for the development of TGP documents is presented in Annex III of this document.

3. The TWPs are invited to comment on:

(a) the proposed restructuring of TGP/3, TGP/4 and TGP/9, presented in Annex II, and;

(b) the program for the development of TGP documents, included in Annex III.

[Annex I follows]

### ANNEX I

### SCHEMATIC OVERVIEW OF TGP/3, TGP/4 AND TGP/9



### ANNEX II

### Proposed restructuring of TGP/3, TGP/4 and TGP/9

### TGP/3 VARIETIES OF COMMON KNOWLEDGE<sup>1</sup>

3.1. The Notion of Breeder and Common Knowledge

### TGP/4 MANAGEMENT OF VARIETY COLLECTIONS

- 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 acceptable risk in the establishment of variety collections
  - 4.1.3 Factors to be considered when establishing variety collections

Types of variety (climatic types) Availability (material/data) Feasibility (obtain material, data/work capacity)

- 4.2 Management of Variety Collections
  - 4.2.1 General
    - 4.2.1.1 Managing collections of plant material (obtaining, verifying, maintaining, updating/renewing samples)
    - 4.2.1.2 Data management
    - 4.2.1.3 Managing access to plant material and data (e.g. restrictions on use, transfer agreement)
  - 4.2.2 Guidance for Variety Collections Which are Planted at Different Times to Candidate Varieties

### 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 Characteristics
    - 9.2.1.1 Function of grouping characteristics
    - 9.2.1.2 Criteria for grouping characteristics
    - 9.2.1.3 Selecting grouping characteristics
    - 9.2.1.4 Using grouping characteristics to select varieties for the growing trial and organizing the growing trial

<sup>&</sup>lt;sup>1</sup> The TC agreed that the development of TGP/3 was a matter for the CAJ.

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- 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 to select varieties for the growing trial and organizing the growing trial
  - 9.2.2.4 The GAÏA software
- 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 to use more than one location
    - 9.3.2.2 Use of information from multiple locations in examining Distinctness
- 9.4 Methods for the Assessment of Distinctness
  - 9.4.1 Consideration of Visual Assessment or the Application of Statistical Methods
  - 9.4.2 Criteria to decide (type of variety/characteristic/data; precision, etc.)
  - 9.4.3 Visual Assessment
    - 9.4.3.1 Introduction (direct comparisons, use of standardised scales, etc. ...)
    - 9.4.3.2 Visual assessment and types of varieties/characteristics/data
    - 9.4.3.3 Use of randomized "blind" testing

### 9.4.4 Recommended Statistical Methods

- 9.4.4.1 Introduction
- 9.4.4.2 COYD
- 9.4.4.3 Others, etc.
- 9.5 Examining Distinctness in Different Types of Variety
  - 9.5.1 General
    - 9.5.1.1 Introduction (variation within a variety and distinctness assessment)
    - 9.5.1.2 Self-pollinated varieties
    - 9.5.1.3 Vegetatively propagated varieties
    - 9.5.1.4 Cross-pollinated varieties
  - 9.5.2 Rootstocks (Introduction special features of rootstock varieties; two sets of characteristics)

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- 9.5.3 Use of the Parental Formula for Examining Distinctness in Hybrids
  - 9.5.3.1 Relevant aspects of hybrid breeding
  - 9.5.3.2 The notion of parental formula
  - 9.5.3.3 Assumptions of the method
  - 9.5.3.4 The notion of "originality" of an inbred line
  - 9.5.3.5 Conditions to be fulfilled when using the parental formula
  - 9.5.3.6 Description of the hybrid
- 9.6 Examples of Approaches for Determining Distinctness:
  - 9.4.5 Australia
  - 9.4.6 France
  - 9.4.7 Other

[Annex III follows]

#### ANNEX III

#### DRAFT PROGRAM FOR THE DEVELOPMENT OF TGP DOCUMENTS

								2003								2005			
			Comments / Othe	r															
		Current approved *	relevant	Drafter	Drafter	Date for						TC-				TC-			
Ref.	Title of document	documents	documents	(TWP)	(Name)	Draft	TWC	TWV	TWA	TWO	TWF	EDC	TC	CAJ	TWPs	EDC	TC	CAJ	TWPs
																			ļ
TGP/00	List of TGP Documents and Latest Issue Dates	-		Office	PB														
	(Coordinator: Office (PB))																		
TCD (04				0.00			_												
TGP/01	General Introduction With Explanations	-		Office															
-	(Coordinator: Office (PB))																		
TCP/02	List of Tost Cuidolinos Adopted by UPOV	TC/30/2		Office	DB								TC/40/2				TC/41/2		
101/02	(Coordinator: Office (PR))	10/33/2		Onice	10								10/40/2				10/41/2		
TGP/03	Varieties of Common Knowledge	-	Responsibility of																í
	(Coordinator: Office (PB))		CAJ																
TGP/03.1	The Notion of Breeder and Common Knowledge	C(Extr.)/19/2 Rev.																	
TGP/04	Management of Variety Collections		See TC/39/6Add.	Office	PB/RL	01-May-04									draft 1	draft 2	draft 3	draft 4	draft 5
	(Coordinator: Mr. Guiard (FR))																		
TGP/05	Experience and Cooperation in DUS Testing			Office	PB	01-Oct-04										draft 1	draft 2	draft 3	
	(Coordinator: Office (PB))																		
TGP/05.1	Model Administrative Agreement for International Cooperation in the	C/27/15 Annex III		Office															1
TCD/05.2	Testing of Varieties	CONTRACTOR A 11 A		0.00															
1GP/05.2	UPOV Model Form for the Application for Plant Breeders Rights	C/X VIII/9 Add., Annexes		Office															
TCP/05.2	Tachnical Questionnaire to be Completed in Connection with an	TGP/7 Droft 2 (Annoy I		Office															
10F/05.5	Application for Plant Breeders' Rights (TO)	Section 10)		Office															1
TGP/05.4	UPOV Request for Examination Results	TC/XXV/12 Annex p 6		Office															
TGP/05.5	UPOV Answer to the Request for Examination Results	TC/XXV/12, Annex, p. 7		Office															
TGP/05.6	UPOV Report on Technical Examination	TC/XXV/12, Annex, p. 1		Office															
TGP/05.7	UPOV Variety Description	TC/26/6, Annex I,		Office															
		pp. 1-3																	
TGP/05.8.1	UPOV Interim Report on Technical Examination	TC/XXV/12, Annex, p. 5		Office															
(TGP/05.8.2	) (Guidance on the use of Interim Reports)	-		TWA/															
				TWO/															i
				TWV															1
TGP/05.9	Cooperation in Examination	C/36/5		Office															
TGP/05.10	List of Species in Which Practical Technical Knowledge has Been	TC/39/4		Office															
	Acquired or For Which National Guidelines Have Been Established																		
TGP/05.11	Notification of Additional Characteristics			Office															
TCD/0C				06	DD AIT	01 0-4 04						_				J	J	J	
1GP/00	(Coordinator: Office (MT))			Onice	r b/M l	01-Oct-04										draft 1	uran 2	uraft 3	
TGP/06.1	Introduction			Office	MT														
TGP/06.2.1	Examples of Arrangements for DUS Testing: Australia		TGP/6.1.2 draft 1	Australia	Mr. Hossain (AU)	01-4110-04													
TGP/06.2.2	Examples of Arrangements for DUS Testing: France		TGP/6.1.2 draft 1	France	Mr. Guiard (FR)	01-Aug-04													
TGP/06.2.3	Examples of Arrangements for DUS Testing: Japan	1	TGP/6.1.2 draft 1	Japan	Culling (114)	01-Aug-04													
TGP/06.2.4	Examples of Arrangements for DUS Testing: other examples	1		other		01-Aug-04													
TGP/06.3	Declaration on the Conditions for the Examination of a Variety Based	C/27/15 Annex II																	
	on Trials Carried Out by or on behalf of Breeders																		
	-	4	4	1	+														

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							2003						2004			2005				
Ref.	Title of document	Current approved * documents	Comments / Other relevant documents	Drafter (TWP)	Drafter (Name)	Date for Draft	тwс	TWV	TWA	тwo	TWF	TC- EDC	тс	CAJ	TWPs	TC- EDC	тс	CAJ	TWPs	
TGP/07	<b>Development of Test Guidelines</b> (Coordinator: Mrs Buitendag (ZA))						draft 3	draft 4	draft 5											
TGP/08	Use of Statistical Procedures in DUS Testing (Coordinator: Office (RL))																		draft 1	
TGP/08.1	Introduction			TWC	Mr. Grégoire (FR) / Mr. Keizer (NL)										draft 2					
TGP/08.2	Validation of Data and Assumptions			TWC	Mr. Kristensen (DK) / Mr. Thissen (NL)		draft 2								draft 3					
TGP/08.3	Experimental Design Practices			TWC	Mr. Thissen (NL) / Mr. Meyer (DE)										draft 2					
TGP/08.4	Types of Characteristics and Their Scale Levels		TWV/35/17; TWA/30/8; TWO/34/10; TWF/32/11	TWC	Mr. Meyer (DE)		draft 2								draft 3					
TGP/08.5	Statistical Methods for DUS Examination			TWC	Ms. Watson (GB) / Mr. Roberts (GB)		draft 2								draft 3					
TGP/08.6	Examining DUS in Bulk Samples			TWC	Mr. Kristensen (DK)		draft 2								draft 3					
TGP/09	Examining Distinctness (Coordinator: Office (RL))		See TC/39/6Add.	Office	PB/RL										draft 1	draft 2	draft 3		draft 5	
TGP/10	Examining Uniformity (Coordinator: Office (RL))															draft 1	draft 2		draft 3	
TGP/10.1	Considering the Application of Statistical Methods			?											draft 1					
TGP/10.2	Assessing Uniformity According to the Features of Propagation		TWA/30/11; TWF/32/13; TWO/34/12	TWC	Ms. Rücker (DE)		draft 2								draft 3					
TGP/10.3.1	Recommended Statistical Methods: COYU	TC/33/7	TWC/15/7; TWC/18/10	TWC	Ms. Watson (GB) / Mr. Roberts (GB)		draft 2								draft 3					
TGP/10.3.2	Recommended Statistical Methods: Off-Types	TC/34/5	TWC/14/4	TWC	Ms. Watson (GB) / Mr. Roberts (GB)		draft 2								draft 3					
TGP/10.3.3	Recommended Statistical Methods: Segregation Ratios			TWC	Mr. Law (GB)										draft 1					
TGP/10.3.4	Relative tolerances in the number of off-types			TWC	DE / GB										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))																		draft 1	
TGP/12.1.1	Characteristics Expressed in Response to External Factors: Disease Resistance			TWV	Mr. Van Ettekoven (NL)			draft 2							draft 3					
TGP/12.1.2	Characteristics Expressed in Response to External Factors: Chemical Response			TWA	Mr. Hossain (AU)	08-Aug-03			draft 2						draft 3					
TGP/12.1.3	Characteristics Expressed in Response to External Factors: Insect Resistance			TWA	Mr. Guiard (FR)	08-Aug-03			draft 2						draft 3					
TGP/12.2.1	Chemical Constituents: Protein Electrophoresis			TWA	Mr. Camlin (GB) / Mr. Guiard (FR)	01-Aug-04										draft 1	draft 2			
TGP/12.3	Examination of Combined Characteristics Using Image Analysis		TC/36/7/12B	? TWC											draft 1 (TWC)					
(TGP/12.4)	(Examination of Scent and Flavor Characteristics)			TWV	?															

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							2003						20	04		2005			-
Ref.	Title of document	Current approved * documents	Comments / Othe relevant documents	er Drafter (TWP)	Drafter (Name)	Date for Draft	тwс	TWV	TWA	тwo	TWF	TC- EDC	тс	CAJ	TWPs	TC- EDC	тс	CAJ	TWPs
				_															
TGP/13	Guidance for New Types and Species (Coordinator: Ms. Scott (GB))																		draft 1
TGP/13.1	General Guidance for New Species		TC/36/7/13A&B	TWA	Mr. Camlin (GB)	11-Aug-03			draft 2	draft 2	draft 2				draft 3				
TGP/13.2	Guidance for New Types of Variety		TC/36/7/13A&B	TWA	Mr. Camlin (GB)	11-Aug-03			draft 2	draft 2	draft 2				draft 3				
TGP/13.3	Guidance for New Multi- and Inter-specific Hybrids			TWF	Mr. Barnaby (NZ) / Mr. Barrientos-Priego (MX) / Mr. Semon (CPVO)	22-Aug-03				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														draft 1
TGP/14.2	Botanical Terms: Plant Shapes		TC/36/5	TWF	Ms. Buitendag (ZA)	29-Aug-03					draft 2				draft 3 (TWF)				draft 4
TGP/14.3	Statistical Terms		TWA/29/9	TWC / TWA	Mr. Hossain (AU) / Mr. Roberts (GB)	09-May-03	draft 2								draft 3 (TWC)				draft 4
TGP/15	New Types of Characteristics (Coordinator: Office (MT))																		
TGP/15.1	Biochemical and Molecular Techniques																		
1				1			1	1							1			1	

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