UPOV

TECHNICAL WORKING PARTY FOR FRUIT CROPS

Fortieth Session Angers, France, September 21 to 25, 2009

PREPARATORY WORKSHOP

September 20, 2009

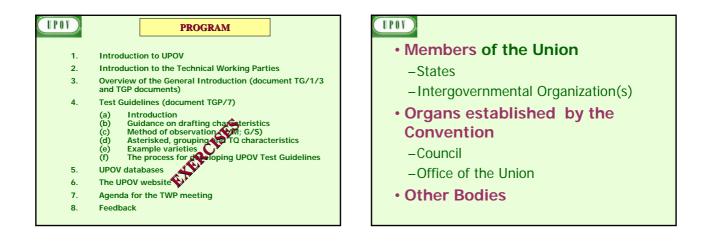
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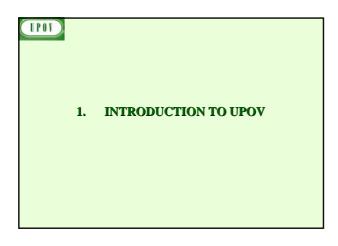
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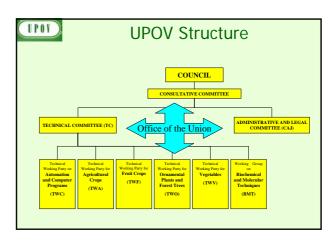
The International Convention for the Protection of New Varieties of Plants established in 1961

The International Union for the Protection of New Varieties of Plants

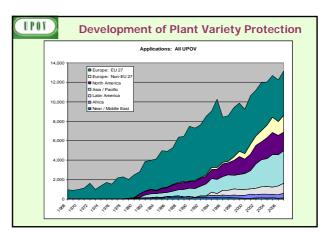
> Union internationale pour la protection des obtentions végétales









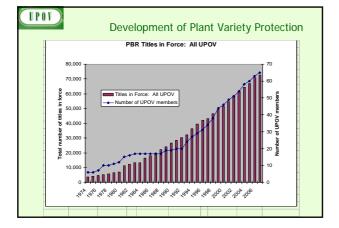


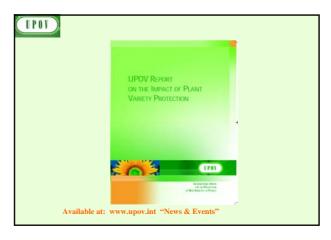


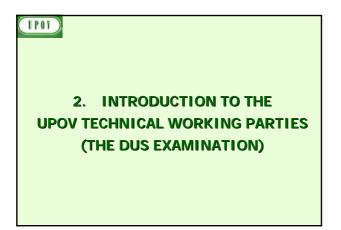
LPOV)

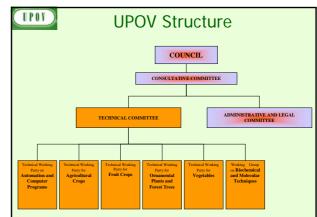
UPOV MISSION STATEMENT

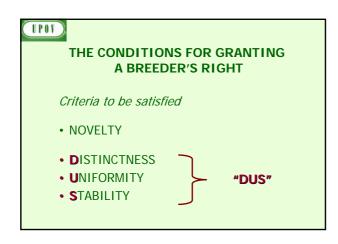
"To provide and promote an *effective system* of plant variety protection, with the aim of encouraging the development of *new varieties of plants*, for the *benefit of society*"













3. OVERVIEW OF THE GENERAL INTRODUCTION

(DOCUMENT TG/1/3 AND TGP DOCUMENTS)

GUIDANCE FOR DUS EXAMINATION



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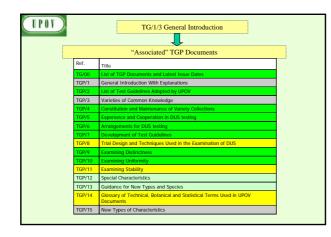
UPOV provides guidance by:

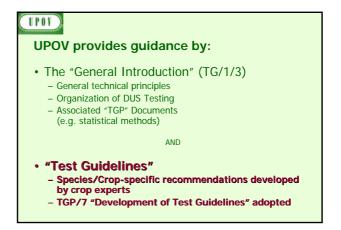
- The "General Introduction" (TG/1/3)
 - General technical principles
 - Organization of DUS Testing
 - Associated "TGP" Documents
 - (e.g. statistical methods)

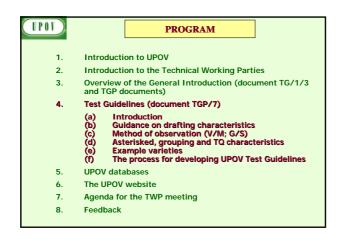
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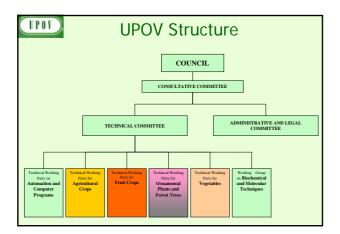
- 4. TEST GUIDELINES
 - (a) Introduction

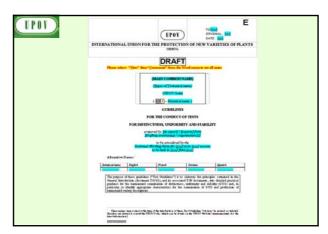


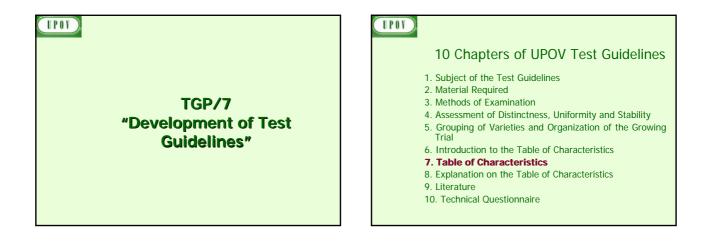


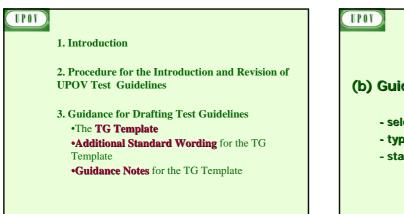








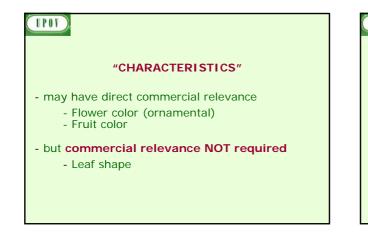




4. TEST GUIDELINES

(b) Guidance on drafting characteristics

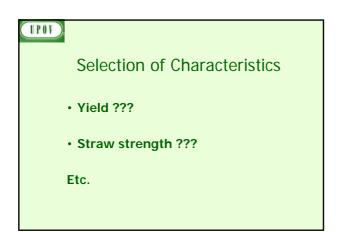
- selection of characteristics
- types of expression (QL, QN, PQ)
- states of expression / notes

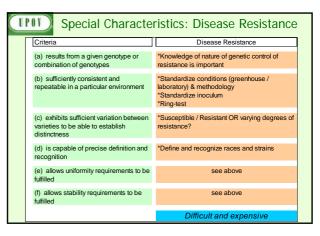


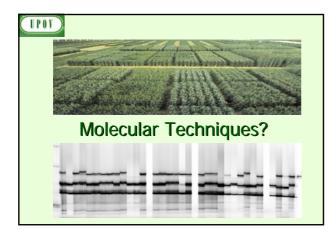
T POT)	Selection of Characte	eristic	S	
	Criteria	Fruit: color	Leaf: shape	Yield
	(a) results from a given genotype or combination of genotypes	Yes	Yes	
	(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	
	(c) exhibits sufficient variation between varieties to be able to establish distinctness	Yes	Yes	
	(d) is capable of precise definition and recognition	Yes	Yes	
	(e) allows uniformity requirements to be fulfilled	Yes	Yes	
	(f) allows stability requirements to be fulfilled	Yes	Yes	
	Commercial value	Yes	No	
	ACCEPTABILITY	Yes	Yes	

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UPOV	Selection of Characte	eristic	S	
	Criteria	Fruit: color	Leaf: shape	Yield
	(a) results from a given genotype or combination of genotypes	Yes	Yes	Yes
	(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	(No)
	(c) exhibits sufficient variation between varieties to be able to establish distinctness	Yes	Yes	???
	(d) is capable of precise definition and recognition	Yes	Yes	(No)
	(e) allows uniformity requirements to be fulfilled	Yes	Yes	???
	(f) allows stability requirements to be fulfilled	Yes	Yes	???
	Commercial value	Yes	No	Yes
	ACCEPTABILITY	Yes	Yes	No







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OUALITATIVE Characteristics

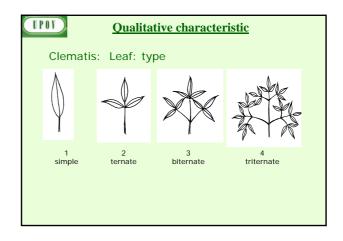
"Qualitative characteristics" are those that are **expressed in discontinuous states** (e.g. sex of plant: dioecious female (1), dioecious male (2), monoecious unisexual (3), monoecious hermaphrodite (4)).

These states are self-explanatory and independently meaningful. All states are necessary to describe the full range of the characteristic, and every form of expression can be described by a single state. The order of states is not important. As a rule, the **characteristics are not influenced by environment**.

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TYPE OF EXPRESSION OF CHARACTERISTICS (QL, QN, PQ):

and consequences for consideration of **distinctness**



7.	Table of Characte	ristics/Tableau d	es caractères/Merkm	alstabelle/Tabla d	e caracteres	
Char. No.	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note Noti
1.	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
(*)						
(QN)	upright	dzessé	aufrecht	epecto	Imppink	1
\sim	semi-upright	semi dressé	halbaufrecht	semierecto	D0158-1	2
	spreading	étalé	breitwüchsig	abierto	Sumnem 03	3
	semi-trailing	semi-étalé	halbhängend	semirrastrero	Impsaf	4
	trailing	coureux	hängend	rastreco	Organza	5
2.	Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
(+)						
QN	short	basse	niedrig	baja	Yateye	3
	medium	moyenne	mittel	media	D0158-1	5
	tall	haute	boch	alta	Inuppink	7

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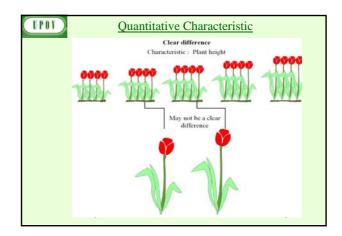
Oualitative Characteristics: distinctness

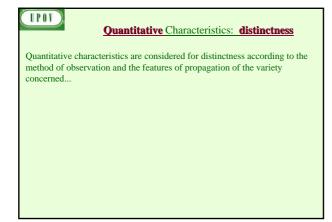
In qualitative characteristics, the difference between two varieties may be considered clear if one or more characteristics have expressions that fall into **two different states in the Test Guidelines.** Varieties should not be considered distinct for a qualitative characteristic if they have the same state of expression.

(e.g. sex of plant: dioecious female (1), dioecious male (2), monoecious unisexual (3), monoecious hermaphrodite (4)).

<u>OUANTITATIVE</u> Characteristics</u>

"Quantitative characteristics" are those where the expression covers the full range of variation from one extreme to the other. The **expression can be recorded on a one-dimensional, continuous or discrete, linear scale**. The range of expression is divided into a number of states for the purpose of description (e.g. length of stem: very short (1), short (3), medium (5), long (7), very long (9)). The division seeks to provide, as far as is practical, an even distribution across the scale. The Test Guidelines do not specify the difference needed for distinctness. The states of expression should, however, be meaningful for DUS







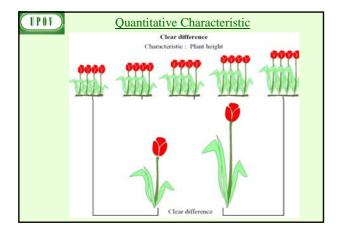
Quantitative Characteristics: distinctness

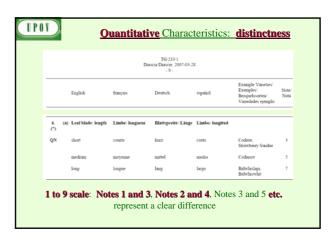
Quantitative characteristics are considered for distinctness according to the method of observation and the features of propagation of the variety concerned.

Test Guidelines (TGP/7 proposed revised text)

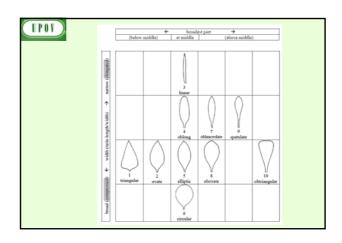
Difference of **two Notes to represent a clear difference if** the **comparison** between two varieties is performed **at the level of Notes**:

e.g.





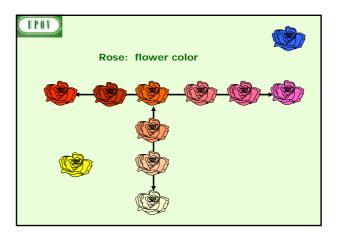
		Dias	TG/233/1 cia/Diascie, 2007-03-2 - 9 -	8		
	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten' Variedades ejemplo	Note Nota
5.	Stem: anthocyanin coloration below inflorescence	Tige: pigmentation anthocyanique sous inflorescence	Trieb: Anthocyanfärbung unter dem Blütenstand	Tallo: pigmentación antociánica por debajo de la inflorescencia		
QN	absent or weak	absente ou faible	fehlend oder gering	ausente o débil	Heccharm	1
	medium	moyenne	mittel	media	Hecrace	2
	strong	forte	stæk	fuerte		3

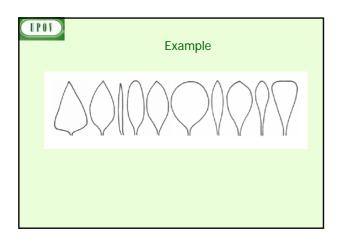


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PSEUDO-QUALITATIVE Characteristics

In the case of "pseudo-qualitative characteristics," the **range of expression is at least partly continuous, but varies in more than one dimension** (e.g. shape: ovate (1), elliptic (2), circular (3), obovate (4)) and cannot be adequately described by just defining two ends of a linear range. In a similar way to qualitative (discontinuous) characteristics – hence the term "pseudo-qualitative" – each individual state of expression needs to be identified to adequately describe the range of the characteristic.

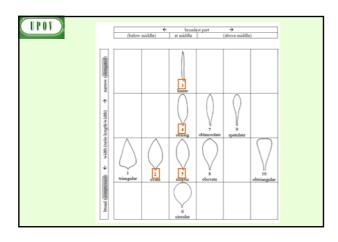


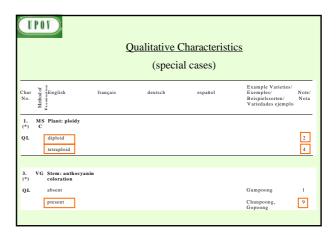


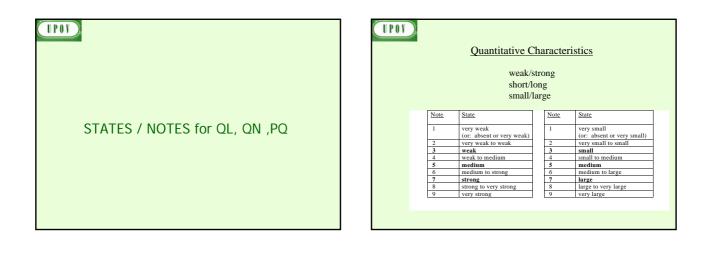
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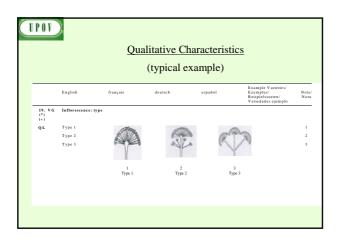
Pseudo-Qualitative Characteristics: distinctness

A different state in the Test Guidelines may not be sufficient to establish distinctness (see also section 5.5.2.3). However, in certain circumstances, varieties described by the same state of expression may be clearly distinguishable.



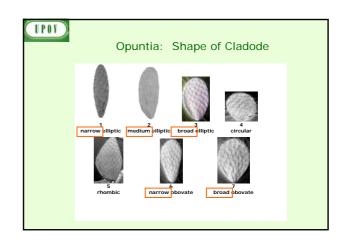


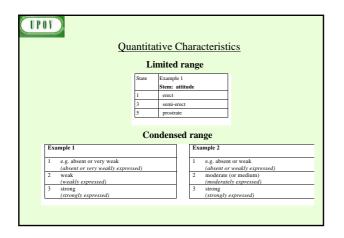


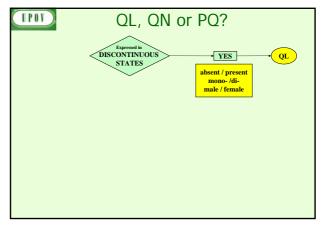


	Quantitative Ch	aracteristics	
Standard Range	Standard Range	Standard Range	Standard Range
Version 1	Version 2	Version 3	Version 4
l very weak	1 very weak	-	-
(or: absent or very weak)	(or: absent or very weak)		
8 weak	3 weak	3 weak	3 weak
medium	5 medium	5 medium	5 medium
strong	7 strong	7 strong	7 strong
very strong	-	9 very strong	-

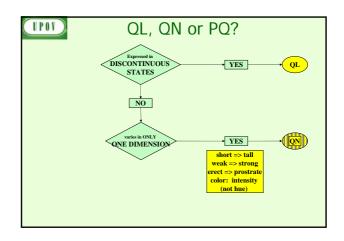
		<u>Quantitati</u>	ve Characteristi	<u>cs</u>
State	Example 1 Size relative to:	Example 2 Angle:	Example 3 Position:	Example 4 Length in relation to:
1	much smaller	very acute	at base	equal
3	moderately smaller	moderately acute	one quarter from base	slightly shorter
5 7	same size moderately larger	right angle moderately obtuse	in middle one quarter from apex end	moderately shorter much shorter
9	much larger	very obtuse	at apex	very much shorter

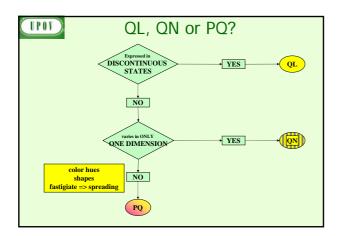




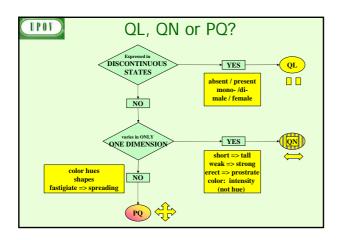


POI	D	Pse	-	tative Characteristics al examples)	
24. (+)	Flower: color of the center	Fleur: couleur du centre	Farbe der Mitte	Flor: color del centro	
PQ	green	vert	grün	verde	1
	yellow	janne	gelb	amarillo	2
	orange	orange	orange	naranja	3
	pink	rose	r058	rosa	4
	red	rouge	tot	гојо	5
	purple	pourpre	purpum	púrpura	6

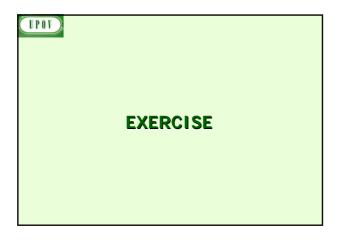




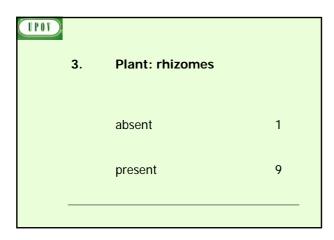
(a)	What type of Expression?
	QL: Qualitative
	QN: Quantitative
	PQ: Pseudo-qualitative
b)	Which Notes represent a clear
diff	erence?

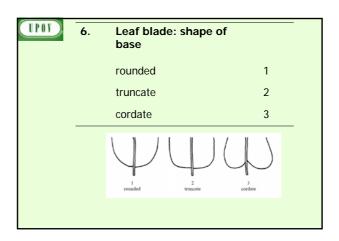


(Lbol)		
		Note/ Nota
1.	Plant: ploidy	
	diploid	2
	tetraploid	4
	hexaploid	6
	octoploid	8

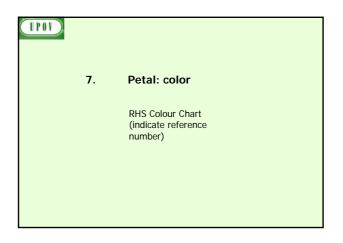


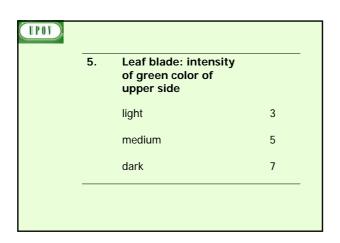
THOT		
2.	Leaf sheath: anthocyanii coloration	n
	absent or very weak	1
	weak	3
	medium	5
	strong	7
	very strong	9



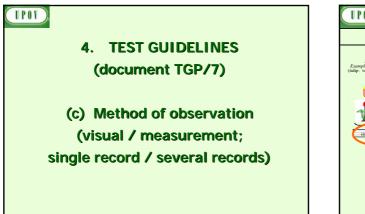


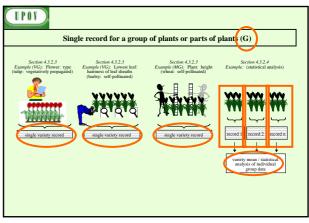
4.	Petal: color	
	white	1
	yellow	2
	orange	3
	red	4
	pink	5
	purple	6





TLA			
	8.	Leaf blade: profile in cross section	
		straight or weakly concave	1
		moderately concave	2
		strongly concave	3





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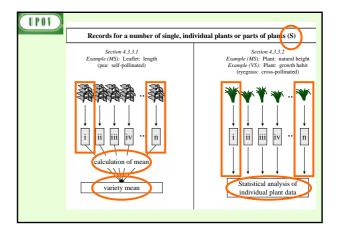
M: Measurement: an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.);

Method of Observation

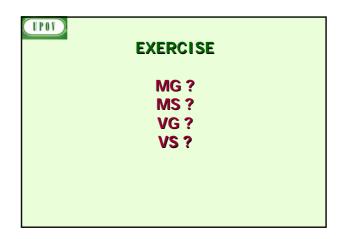
V: Visual observation:

includes observations where the expert uses **reference points** (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts).

"Visual" observation refers to the sensory observations of the expert and, therefore, also **includes smell, taste and touch**.



Type of Record
(for the purposes of distinctness)
<u>G</u>: single record for a variety, or a GROUP of plants or parts of plants;
In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant- by-plant analysis for the assessment of distinctness.
S: records for a number of SINGLE, individual plants or parts of plants



	page 22		
Summary			
ment of distinctness, although		expression of char	acteristic
Method of propagation of the variety	QL	PQ	QN
Vegetatively propagated	VG	VG	VG/MG/MS
Self-pollinated	VG	VG	VG/MG/MS
Cross-pollinated	VG/(VS*)	VG/(VS*)	VS/VG/MS/MC
Hybrids	VG/(VS*)	VG/(VS*)	**
the variety Vegetatively propagated Self-pollinated Cross-pollinated	VG VG VG/(VS*)	VG VG VG/(VS*)	VG/MG/M VG/MG/M VS/VG/MS

3.	Leaf: undulation of margin of blade	
QN	absent or very weak	1
	intermediate	2
	strong	3
-		

1.	Plant: height (at time of harvest)	
QN	very short	1
	short	3
	medium	5
	tall	7
	very tall	9

4.	Tassel: number of primary lateral branches	
QN	absent or very few	1
	few	3
	medium	5
	many	7
	very many	9

2.	Leaf: twisting of tip	
QN	absent or very weak	1
	weak	3
	medium	5
	strong	7
	very strong	9

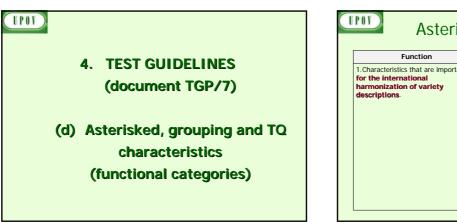
5.	Leaf: width of blade	
QN	very narrow	1
	narrow	3
	medium	5
	wide	7
	very wide	9

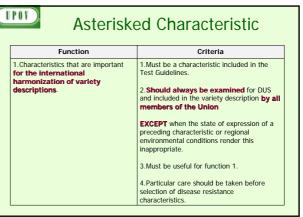
6.	Plant: time of inflorescence emergence (without vernalization)	
QN	very early	1
	early	3
	medium	5
	late	7
	very late	9

Standard Test Guidelines Characteristic				
Function	Criteria			
1.Characteristics that are accepted by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.	1.Must satisfy the criteria for use of any characteristic for DUS as set out in Chapter 4, section 4.2 . 2.Must have been used to develop a variety description by at least one member of the Union. 3.Where there is a long list of such characteristics and, where considered appropriate, there may be an indication of the extent of use of each characteristic.			

7.	Plant: vegetative growth habit (without vernalization)	
QN	erect	1
	semi-erect	3
	medium	5
	semi-prostrate	7
	prostrate	9

7.	Table of Characte	ristics/Tableau d	es caractères/Merkm	alstabelle/Tabla o	le caracteres	
Char. No.	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
Ö	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
QN	upright	dressé	aufrecht	erecto	Inuppink	1
	semi-upright	semi dressé	halbaufrecht	semierecto	D0158-1	2
	spreading	étalé	breitwüchsig	abierto	Sumnem 03	3
	semi-trailing	semi-étalé	halbhängend	semirrastrero	Inupsaf	4
	trailing	coureux	hängend	rastrero	Organza	5



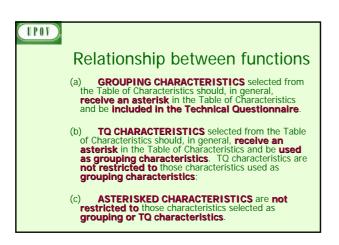


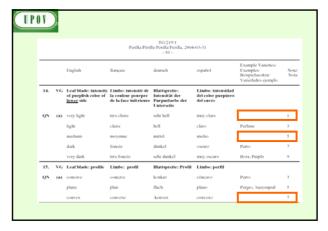
5.	Grouping of Varieties and Organization of the Growing Trial
	The selection of varieties of common knowledge to be grown in the trial with the date varieties and the way in which these varieties are divided into groups to facilitate sessment of distinctness are aided by the use of grouping characteristics.
other from	Grouping characteristics are those in which the documented states of expression, even is produced at different bocations. can be used, either holicidually or its combination with such characteristics: (a) to select varieties of common knowledge that can be excluded the growing train used for examination of distinctness; and (b) to organize the growing to that similar varieties are grouped together.
5.3	The following have been agreed as useful grouping characteristics: (a) Plant: growth labils (characteristic 1) (b) Loaf black: varegation (characteristic 11) (c) Upper lobes of corolla: main color (characteristic 24), with the following groups: (c) C, 1: white (c) C, 2: yellow (c) C, 3: orange (c) A: pink (c) C, 5: red (c) A: pink (c) C, 7: violet (c) A: bhas (c) A: pink (c) C, 5: bhas (c) A: pink (

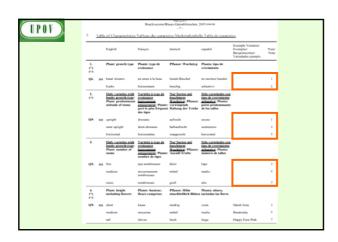
UPOY	
	4. TEST GUIDELINES (document TGP/7)
	(e) Example varieties

	Function	Criteria				
cha 1.	racteristics in which the documented states of expression, even where recorded at different locations, can be used either individually or in combination with other such characteristics: to select varieties of common knowledge that can be excluded from the growing trial used for examination of	1. (a) Qualitative characteristics or (b) Quantitative or pseudo-qualitative characteristics which provide useful discrimination between the varieties of commo knowledge from documented states of expression recorded at different locations. 2. Must be useful for functions 1 and 2. 3. Should be an asterisked characteristic and/or included in the Technical				
2.	distinctness, and/or to organize the growing trial so that similar varieties are grouped together	Questionnaire or application form.				

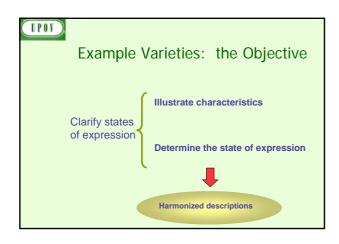
TPOT			Lethace	TG/13/9 Laitue/Salat/Lechuga, . 7 .	2004-03-31		
	7. <u>Tab</u>	le of Characteristi	cs/Tableau des cara	etères/Merkmalsta	belle/Tabla de cara	cteres	
		English	français	Deutsch	español	Example Varieties Exemples Beispichsorten Variedades ejemplo	Note/ Nota
	ь. (*)	Seed: color	Semence: couleur	Samen: Farbe	Semilla: color		
		white	blanche	weiß	blanco	Verpia	1
		yellow	jaune	gelb	amarillo	Durango	2
		black	noire	schwarz	negro	Kagraner Sommer	3
	2. (*) (+)	Seedling: anthocyanin coloration	Plantule: pigmentation anthocyanique	Keimpflanze: Anthocyanfärbung	Plántula: pigmentación antociánica		
		absent	absente	fehlend	ausente	Verpia	1
		present	présente	vorhanden	presente	Pirat	9
	3.	Seedling; size of cetyleden (fully developed)	Plantule: taille du cotylédon (à complet développement)	Keimpflanze: Größe des Keimblatts (voll entwickelt)	Plántula; tamaño del cotiledón (pleaamente desarrollado)		
		small	petit	klein	pequaño	Romance	3
		medium	moyen	mittel	medio	Expresse	5
		large	grand	groß	grande	Verpia	7

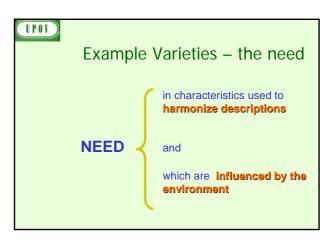


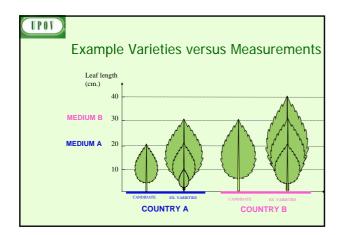


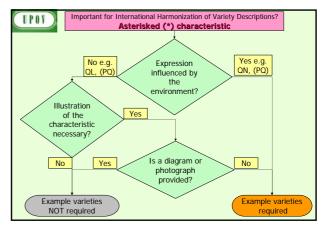


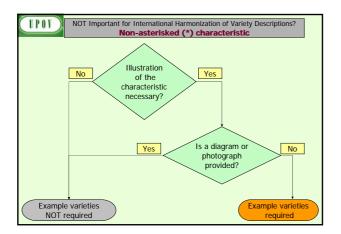
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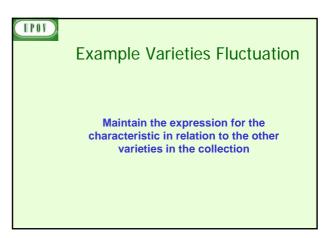


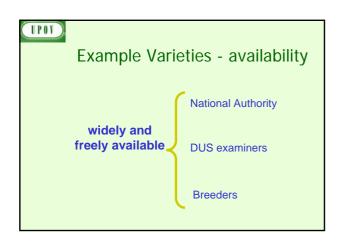


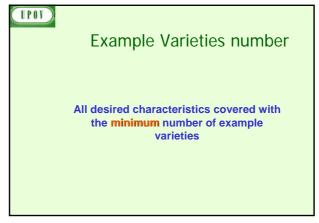


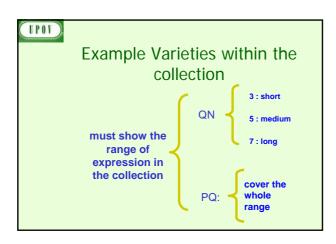


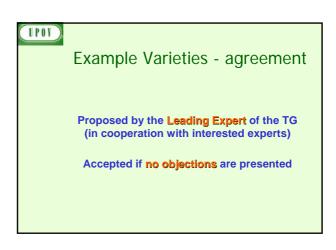


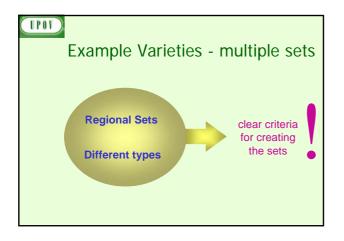


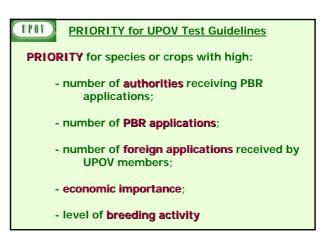


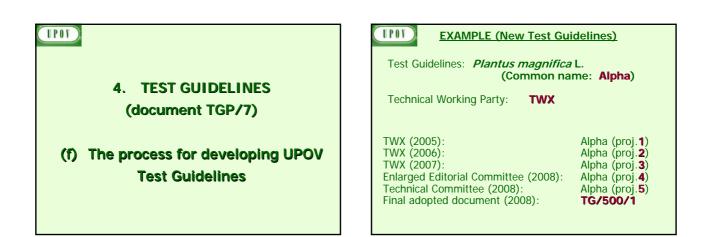


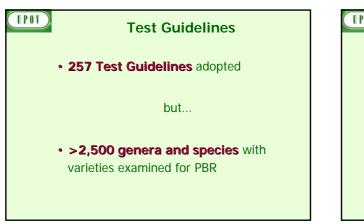


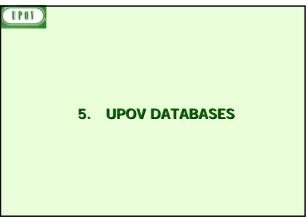






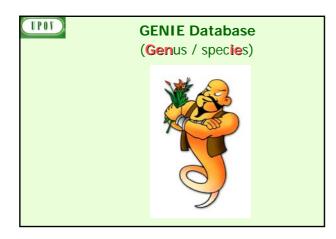




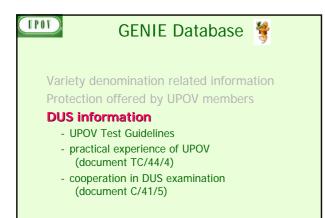


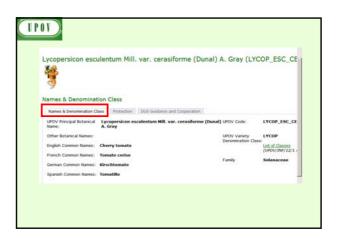


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UPOV Code	Hotanical Names	English	French	German	Spanish
CYPHO_HET	Cyphomandra betacna (Cav.) Sendia. Solarum betaceum Cav.	Tamarilo; Tree Tomato; Tree- tomato	Tomate en arbre	Baumtomate	Árbol tomate: Tomate serrano
LYCOP ESC	Lycopersicon esculentum Hill, Lycopersicon esculentum P. Mill.	Tomato	Tomate	Tomate	Tomate
LYCOP, ESC. CER	Lycopersicon esculentum Mill, var. cerasiforme (Danal) A. Gray	Cherry tomato	Tomate cense	Kirschtomate	Tomatillo
LYCOP_ESC_ESC	Lycopersicen esculentum Mill, var. esculentum Lycopersicen esculentum P. Mill. nom. cons. var. koopersicen Lycopersicen Copersicen Copersicen Copersicen Copersicen Scianter, Copersicen Scianter, Copersicen Scianter, Copersicen Scianter, Copersicen Scianter, Copersicen Scianter, Copersicen Scianter, Copersicen Scianter, Copersite Scianter, Coper	Tomato .	Tonate	Tomate	Tomate; Tomatera





UTUT	Lycopersicon esculentum Mill. (LYCOP_ESC_CER)	. var. cerasiforme (Duni	al) A. Gray
	Protection		
	Names & Denomination Class Protection	DUS Guidance and Cooperation	
	UPOV Principal Batarical Name: (Danal) A. Gray Other Botarical Names: English Common Names: Cherry Ionsate	alentum Mill. var. cerasiforme	UPOV Code: LYCOP_ESC_CER
	The entry of data in the CENE database has la regulatore, in particular because the nomencu the relevant laws and regulations when precise (period): however, the analysis of a to being in present laws as a result of the president of a to being in presented.	tures used are not always universally information is needed.	harmonized. It is recommended to consult
	Hembers of UPOV which offer protection	Status	Notes
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	Acpentana	All species (Derived [all])	
	Australia	All species (Derived [all])	
	Austria	All species (Derived (all))	
	Azerbailan	Selected species (Derived)	
	Bolista	All species (Derived [all])	
	Bulmaria	All species (Derived [all])	
	Canada	All species (Derived [all])	

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Ox score Plant retty Database	DUS Guidance and Coope	ration			
	Names & Decementation Class	Protection DUS Guidance and Cooperation			
	UFOV Precipal Botanical Name:	Triticam anotherm L.		UPOV Code:	TRITI_AES
	Other Botanical Names:	Triticum anothrum L. amand, Fiori at Paol.			
	Products Company Names	Whent			
- I	MCN.Test.Godeleses	Wheat (TS/3/11 + Cort.)		Deathers.authorita	None
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	Authorities with Practical Exp			operation in DUS Exa	
	traines in generalizes indicate experience in the case of a species: there is experien-	a at the level of a higher botanical rank (for example ros at the level of the genus to which it belongs).	office which has been deal	grated in the tentory opnian	by "4". this indicates an exercitation ad by the receiving suffering in the specified in the "affering" relates
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Lef Drug / mins Lef Authorities mileri Reports moduleets	Triticum aestivum L.	(TRITI_AES) 🅞			
N SIP Plant	DUS Guidance and Coope	ration			
	Names & Decemenation Class	Protection DUS Guidance and Cooperation			
	UPOV Principal Botanical Name:	Triticum anstivum L.		UPOV Code:	TRITLARS
	Other Botanical Names:	Triticum anathrum L. emend, Fiori et Paul,			
	English Common Names:	Wheat			
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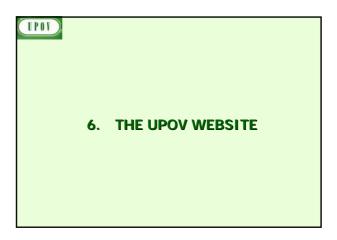
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		Latter to the Executive Secretary of the Secretariat of the Convention on Biolog containing a decision of the Council of UROV for consideration by the Conference CBD at its meth meeting to be held in Born, Germany, from May 19 to 30, 2008 (Addres BOL)	pcal Diversity (CBD) e of Parties of the
		Access to Genetic Resources and Benefit-Sharing (Bapty of UROV to the Notification of April 12, 2005, from the Executive Secreta on Biological Diversity (CBD)) (Solds:ESE)	ry of the Convention



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	HOME ABOUT UPOV UPOV DOCUMENTS PU	BLICATIONS	
UPOV Convention List of Publications Gazette & Newsletter	The following UPOV publications are avail	able on re	LIST OF UPOV PUBLICATIONS*
Laws & Treaties List of Taxa Protected Plant Variety			= French, FEG = French/English/German,
General Introduction to DUS TGP Documents	221	(A) (C) (D)	International Convention for the Protecti Plants, text of 1991 only
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