

UPOV

**TECHNICAL WORKING PARTY
FOR AGRICULTURAL CROPS**

Thirty-eight Session
Seoul, Rep. of Korea 2009

PREPARATORY WORKSHOP

August 30, 2009

UPOV

UPOV

**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**

UPOV

PROGRAM

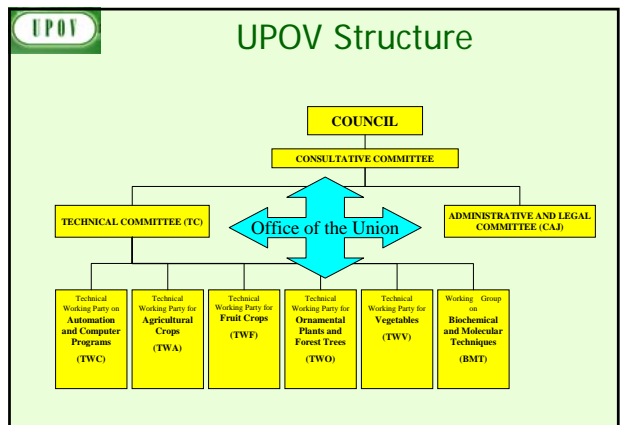
1. Introduction to UPOV
2. Introduction to the Technical Working Parties
3. Overview of the General Introduction (document TG/1/3 and TGP documents)
4. Test Guidelines (document TGP/7)
 - (a) Introduction
 - (b) Guidance on drafting characteristics
 - (c) Method of observation (M; G/S)
 - (d) Asterisked, grouping and TQ characteristics
 - (e) Example varieties
 - (f) The process for developing UPOV Test Guidelines
5. UPOV databases
6. The UPOV website
7. Agenda for the TWP meeting
8. Feedback

UPOV

- **Members of the Union**
 - States
 - Intergovernmental Organization(s)
- **Organs established by the Convention**
 - Council
 - Office of the Union
- **Other Bodies**

UPOV

1. INTRODUCTION TO UPOV

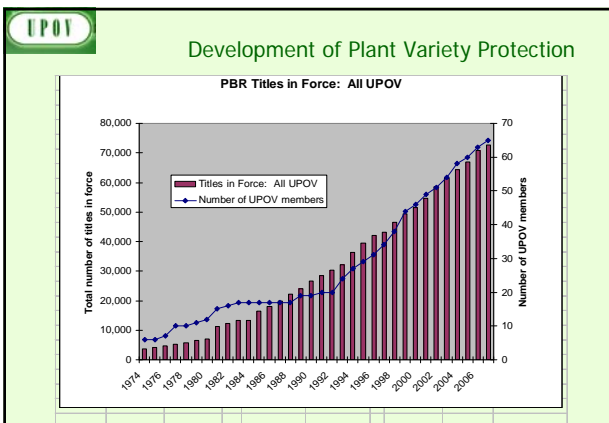
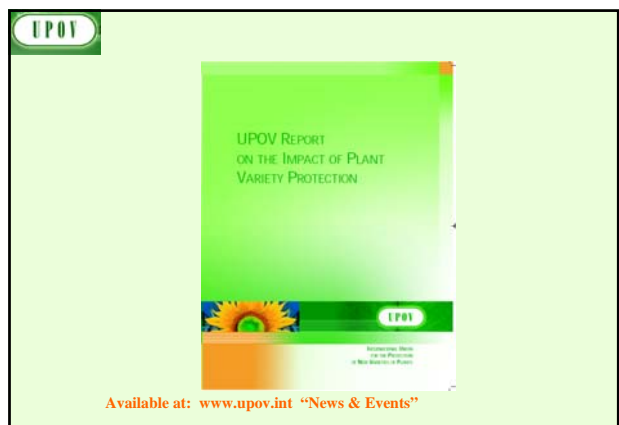
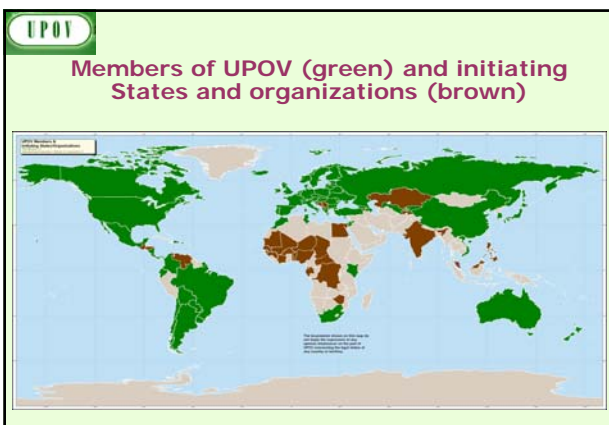




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UPOV MISSION STATEMENT

“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*”



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2. INTRODUCTION TO THE UPOV TECHNICAL WORKING PARTIES (THE DUS EXAMINATION)

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THE CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Criteria to be satisfied

- NOVELTY
- **DISTINCTNESS**
- **UNIFORMITY**
- **STABILITY**

} "DUS"

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3. OVERVIEW OF THE GENERAL INTRODUCTION

(DOCUMENT TG/1/3 AND TGP DOCUMENTS)

GUIDANCE FOR DUS EXAMINATION

UPOV

THE CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Other conditions

- VARIETY DENOMINATION
- FORMALITIES
- PAYMENT OF FEES

NO OTHER CONDITIONS!

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Guidance for DUS Examination

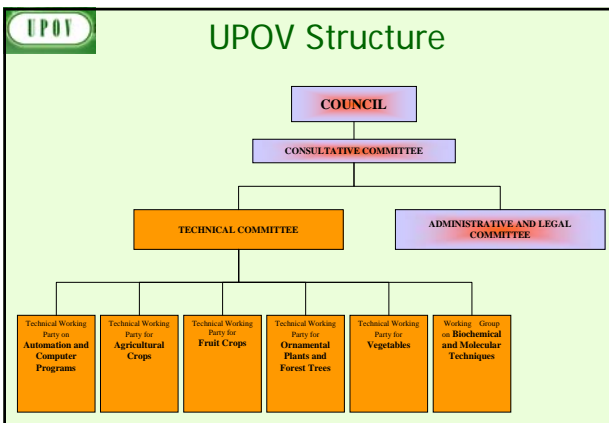
facilitates:

BEST PRACTICE (based on experience)

- => good decisions
- => good definition of the object of protection (strong protection)
- => efficiency in method of examination (learn from the best)

HARMONIZATION

- => efficiency
- mutual acceptance of DUS reports (minimize cost of examination for individual authorities)
- mutual recognition of variety descriptions (all parties speak the same "language")
- simple and cheap system for applicants (minimize cost for breeders)



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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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TG/1/3 General Introduction

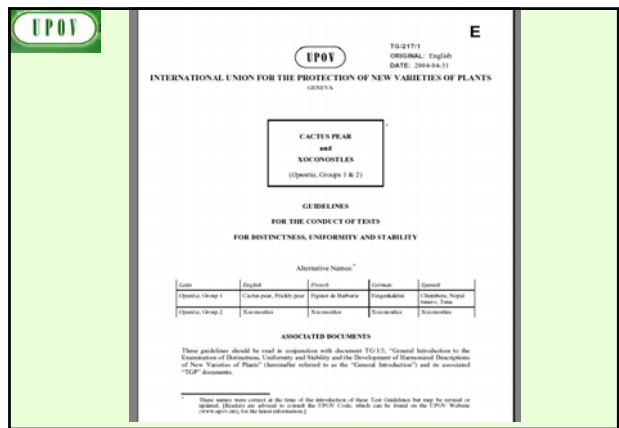
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“Associated” TGP Documents

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
TGP/8	Trial Design and Techniques Used in the Examination of DUS
TGP/9	Examining Distinctness
TGP/10	Examining Uniformity
TGP/11	Examining Stability
TGP/12	Special Characteristics
TGP/13	Guidance for New Types and Species
TGP/14	Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents
TGP/15	New Types of Characteristics

- UPOV**
- UPOV provides guidance by:**
- The “General Introduction” (TG/1/3)
 - General technical principles
 - Organization of DUS Testing
 - Associated “TGP” Documents (e.g. statistical methods)
- AND
- **“Test Guidelines”**
 - Species/Crop-specific recommendations developed by crop experts
 - TGP/7 “Development of Test Guidelines” adopted

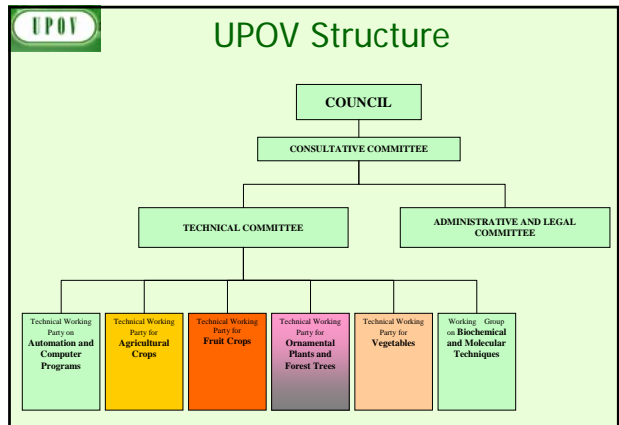
- UPOV**
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4. TEST GUIDELINES

(a) Introduction



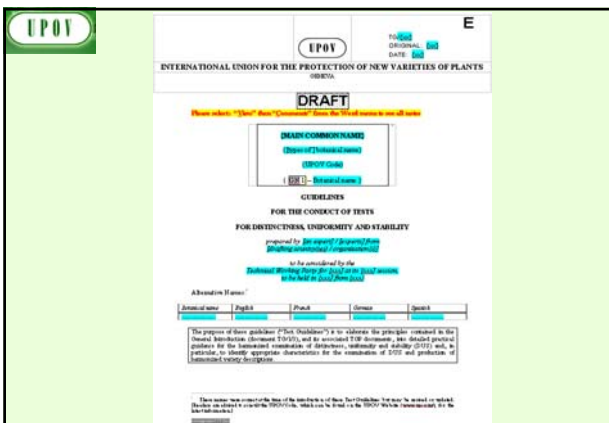
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TGP/7 “Development of Test Guidelines”

- UPOV**
- ### 10 Chapters of UPOV Test Guidelines
1. Subject of the Test Guidelines
 2. Material Required
 3. Methods of Examination
 4. Assessment of Distinctness, Uniformity and Stability
 5. Grouping of Varieties and Organization of the Growing Trial
 6. Introduction to the Table of Characteristics
 - 7. Table of Characteristics**
 8. Explanation on the Table of Characteristics
 9. Literature
 10. Technical Questionnaire

- UPOV**
1. Introduction
 2. Procedure for the Introduction and Revision of UPOV Test Guidelines
 3. Guidance for Drafting Test Guidelines
 - The **TG Template**
 - Additional Standard Wording** for the TG Template
 - Guidance Notes** for the TG Template

- UPOV**
- ### 4. TEST GUIDELINES
- (b) Guidance on drafting characteristics**
- selection of characteristics
 - types of expression (QL, QN, PQ)
 - states of expression / notes



- UPOV**
- ### “CHARACTERISTICS”
- may have direct commercial relevance
 - Flower color (ornamental)
 - Fruit color
 - but **commercial relevance NOT required**
 - Leaf shape

UPOV **Selection of Characteristics**

The basic requirements that a characteristic should fulfill before it is used for DUS testing or producing a variety description are that its expression (TG/1/3: Section 4.2.1) :

- (a) **results from a given genotype** or combination of genotypes;
- (b) is sufficiently **consistent and repeatable** in a **particular environment**;
- (c) exhibits sufficient **variation between varieties** to be able to establish distinctness;
- (d) is capable of **precise definition and recognition**;
- (e) allows **uniformity requirements** to be fulfilled;
- (f) allows **stability requirements** to be fulfilled, meaning that it produces consistent and repeatable results after repeated propagation or, where appropriate, at the end of each cycle of propagation.

UPOV **Selection of Characteristics**

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

UPOV **Selection of Characteristics**

- **Yield ???**
- **Straw strength ???**

Etc.


UPOV **Special Characteristics: Disease Resistance**

Criteria	Disease Resistance
(a) results from a given genotype or combination of genotypes	*Knowledge of nature of genetic control of resistance is important
(b) sufficiently consistent and repeatable in a particular environment	*Standardize conditions (greenhouse / laboratory) & methodology *Standardize inoculum *Ring-test
(c) exhibits sufficient variation between varieties to be able to establish distinctness	*Susceptible / Resistant OR varying degrees of resistance?
(d) is capable of precise definition and recognition	*Define and recognize races and strains
(e) allows uniformity requirements to be fulfilled	see above
(f) allows stability requirements to be fulfilled	see above
Difficult and expensive	

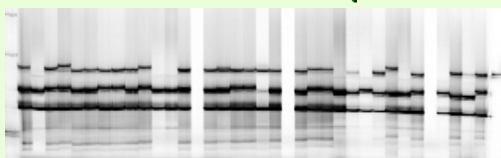
UPOV **Selection of Characteristics**

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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Molecular Techniques?



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

*and consequences for consideration of **distinctness***

Qualitative characteristic

Clematis: Leaf: type



1
simple



2
ternate



3
biternate



4
triternate

7. Table of Characteristics/ Tableau des caractères/ Merkmalstabelle/ Tabla de caracteres

Char. No.	English	français	Deutsch	español	Example Varieties Ejemplos Beispielsorten Variedades ejemplo	Note
1. (*)	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
QN	upright	dressé	aufrecht	erecto	Impatiak	1
	semi-upright	semi dressé	halbaufrecht	semierecto	DO158-1	2
	spreading	étalé	herabwiegend	abanto	Sammara 03	3
	semi-trailing	semi-étalé	halbhängend	semirastroso	Impaf	4
	trailing	couvert	hängend	rastroso	Organza	5
2. (*)	Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
QN	short	basse	niedrig	baja	Yateya	3
	medium	moyenne	mittel	media	DO158-1	5
	tall	haute	hoch	alta	Impatiak	7

Qualitative 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)).

QUALITATIVE 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**.

QUANTITATIVE Characteristics

“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

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Quantitative Characteristics: distinctness

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

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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.

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Quantitative Characteristic

Clear difference
Characteristic : Plant height

Clear difference

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Quantitative Characteristics: distinctness

TG/233/1
Daucus Daucoides, 2007-03-28
- 9 -

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
6. (*)	(a) Leaf blade length	Limbe: longueur	Blattbreite: Länge	Limbo: longitud		
QN	short	courte	kurz	corto	Codina, Strawberry Sandae	3
	medium	moyenne	mittel	medio	Codacee	5
	long	longue	lang	largo	Babbelstapa, Babbelstalat	7

1 to 9 scale: Notes 1 and 3, Notes 2 and 4, Notes 3 and 5 etc. represent a clear difference

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Quantitative Characteristic

Clear difference
Characteristic : Plant height

May not be a clear difference

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Quantitative Characteristics: distinctness

TG/233/1
Daucus Daucoides, 2007-03-28
- 9 -

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
5.	Stem: anthocyanin coloration below inflorescence	Tige: pigmentation anthocyanique sous inflorescence	Trieb: Anthocyanfärbung unter dem Blütenstand	Tallo: pigmentación antocianina por debajo de la inflorescencia		
QN	absent or weak	absente ou faible	fehlernd oder gering	ausente o débil	Heclaram	1
	medium	moyenne	mittel	media	Heclaram	2
	strong	forte	stark	fuerte		3

1 to 3 scale: only Notes 1 and 3 represent a clear difference

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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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Rose: flower color

UPOV

Example

UPOV

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.

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		← broadest part →		
		(below middle)	at middle	(above middle)
width (ratio length/wid) →	narrow (filiform)		3 linear	
			4 oblong	7 oblanccolate
broad (compress)	←	1 triangular	2 ovate	5 elliptic
			8 obovate	10 obtriangular
			6 circular	

UPOV

		← broadest part →		
		(below middle)	at middle	(above middle)
width (ratio length/wid) →	narrow (filiform)		3 linear	
			4 oblong	7 oblanccolate
broad (compress)	←	1 triangular	2 ovate	5 elliptic
			8 obovate	10 obtriangular
			6 circular	

EPO1

STATES / NOTES for QL, QN ,PQ

EPO1




Quantitative Characteristics

weak/strong
short/long
small/large

Note	State	Note	State
1	very weak (or: absent or very weak)	1	very small (or: absent or very small)
2	very weak to weak	2	very small to small
3	weak	3	small
4	weak to medium	4	small to medium
5	medium	5	medium
6	medium to strong	6	medium to large
7	strong	7	large
8	strong to very strong	8	large to very large
9	very strong	9	very large

EPO1

Qualitative Characteristics
(typical example)

English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
19. VG Inflorescence: type (*) (*)					
QL	Type 1				1
	Type 2				2
	Type 3				3
	1 Type 1	2 Type 2	3 Type 3		

EPO1

Quantitative Characteristics

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

EPO1

Qualitative Characteristics
(special cases)

Char No.	Method of Examination	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
1. MS Plant: ploidy (*) C							
QL		diploid					2
		tetraploid					4
3. VG Stem: anthocyanin coloration (*) C							
QL		absent				Gumpoong	1
		present				Chungoong, Gopoong	9

EPO1

Quantitative Characteristics

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

UPO1

Quantitative Characteristics

Limited range

State	Example 1 Stem: attitude
1	erect
3	semi-erect
5	prostrate

Condensed range

Example 1	Example 2
1 e.g. absent or very weak <i>(absent or very weakly expressed)</i>	1 e.g. absent or weak <i>(absent or weakly expressed)</i>
2 weak <i>(weakly expressed)</i>	2 moderate (or medium) <i>(moderately expressed)</i>
3 strong <i>(strongly expressed)</i>	3 strong <i>(strongly expressed)</i>

UPO1

QL, QN or PQ?

```

    graph TD
      A{Expressed in DISCONTINUOUS STATES} -- YES --> B(QL)
      A -- NO --> C[absent / present  
mono- / di-  
male / female]
  
```

UPO1

Pseudo-qualitative Characteristics (typical examples)

24. Flower: color of the centre (+)	Fleur: couleur du centre	Farbe der Mitte	Flor: color del centro	
PQ green	vert	grün	verde	1
yellow	jaune	gelb	amarillo	2
orange	orange	orange	naranja	3
pink	rose	rosa	rosa	4
red	rouge	rot	rojo	5
purple	pourpre	purpura	plúpusa	6

UPO1

QL, QN or PQ?

```

    graph TD
      A{Expressed in DISCONTINUOUS STATES} -- YES --> B(QL)
      A -- NO --> C{varies in ONLY ONE DIMENSION}
      C -- YES --> D(QN)
      C -- NO --> E[short => tall  
weak => strong  
erect => prostrate  
color: intensity  
(not hue)]
  
```

UPO1

Opuntia: Shape of Cladode

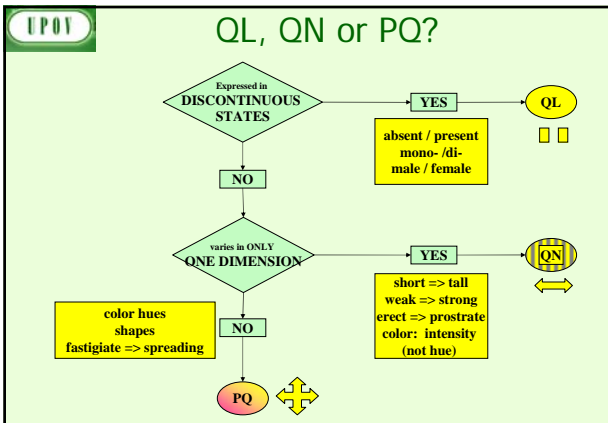
1 narrow elliptic 2 medium elliptic 3 broad elliptic 4 circular
5 rhombic 6 narrow pbovate 7 broad pbovate

UPO1

QL, QN or PQ?

```

    graph TD
      A{Expressed in DISCONTINUOUS STATES} -- YES --> B(QL)
      A -- NO --> C{varies in ONLY ONE DIMENSION}
      C -- YES --> D(QN)
      C -- NO --> E[color hues  
shapes  
fastigate => spreading]
      E --> F(PQ)
  
```



UPOY

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

UPOY

EXERCISE

UPOY

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

UPOY

(a) What type of Expression?

QL: Qualitative
QN: Quantitative
PQ: Pseudo-qualitative

(b) Which Notes represent a clear difference?

UPOY

3. Plant: rhizomes	
absent	1
present	9

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4. Petal: color

white	1
yellow	2
orange	3
red	4
pink	5
purple	6

EPOV

7. Petal: color

RHS Colour Chart
(indicate reference number)

EPOV

5. Leaf blade: intensity of green color of upper side

light	3
medium	5
dark	7

EPOV

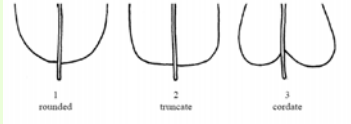
8. Leaf blade: profile in cross section

straight or weakly concave	1
moderately concave	2
strongly concave	3

EPOV

6. Leaf blade: shape of base

rounded	1
truncate	2
cordate	3



EPOV

4. TEST GUIDELINES (document TGP/7)

(c) Method of observation (visual / measurement; single record / several records)

UPOV Method of Observation

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

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**.

UPOV Records for a number of single, individual plants or parts of plants (S)

Section 4.3.3.1
 Example (MS): Leaflet: length (pea: self-pollinated)

Section 4.3.3.2
 Example (VS): Plant: growth habit (ryegrass: cross-pollinated)

UPOV Type of Record
 (for the purposes of distinctness)

G: 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 ...

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EXERCISE

MG ?
MS ?
VG ?
VS ?

UPOV Single record for a group of plants or parts of plants (G)

Section 4.3.2.3 Example (VG): Flower: type (maize: vegetatively propagated)

Section 4.3.2.3 Example (VG): Lowest leaf: hairiness of leaf sheaths (barley: self-pollinated)

Section 4.3.2.3 Example (MG): Plant: height (wheat: self-pollinated)

Section 4.3.2.4 Example: (statistical analysis)

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TGP/9/1
 page 22

4.5 Summary

The following table summarizes the common method of observation and type of record for the assessment of distinctness, although there may be exceptions:

Method of propagation of the variety	Type of expression of characteristic		
	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/MG
Hybrids	VG/(VS*)	VG/(VS*)	**

* Records of individual plants only necessary if segregation is to be recorded.
 ** To be considered according to the type of hybrid.

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

UPOY

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

UPOY

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

UPOY

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

UPOY

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

UPOY

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

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7. Plant: vegetative growth habit (without vernalization)

QN	erect	1
	semi-erect	3
	medium	5
	semi-prostrate	7
	prostrate	9

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Asterisked Characteristic

7. Table of Characteristics/ Tableau des caractères/ Merkmalstabelle/ Tabla de caracteres

Char. No.	English	français	Deutsch	español	Example Varieties Exemples Beispiele/variantes Variedades ejemplo	Note/ Nota
	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
QN	upright	dressé	aufrecht	erecto	Imppink	1
	semi-upright	semi dressé	halbaufrecht	semirecto	DO158-1	2
	spreading	étalé	breitwüchsig	abierto	Sunsem 03	3
	semi-trailing	semi-étalé	halbhängend	semirastroso	Impsaf	4
	trailing	coureux	hängend	rastroso	Organza	5

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4. TEST GUIDELINES (document TGP/7)

(d) Asterisked, grouping and TQ characteristics (functional categories)

UPOV

Asterisked Characteristic

Function	Criteria
1.Characteristics that are important for the international harmonization of variety descriptions.	1.Must be a characteristic included in the Test Guidelines. 2. Should always be examined for DUS and included in the variety description by all members of the Union EXCEPT when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate. 3.Must be useful for function 1. 4.Particular care should be taken before selection of disease resistance characteristics.

UPOV

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.

UPOV

Grouping Characteristic

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

(a)	Plant: growth habit (characteristic 1)
(b)	Leaf blade: variegation (characteristic 11)
(c)	Upper lobes of corolla: main color (characteristic 24), with the following groups: Gr. 1: white Gr. 2: yellow Gr. 3: orange Gr. 4: pink Gr. 5: red Gr. 6: red purple Gr. 7: violet Gr. 8: blue

EPOV

Grouping Characteristic

Function	Criteria
characteristics 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: 1. to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness, and/or 2. to organize the growing trial so that similar varieties are grouped together	1. (a) Qualitative characteristics or (b) Quantitative or pseudo-qualitative characteristics which provide useful discrimination between the varieties of common 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 Questionnaire or application form.

EPOV

TG 139
Lettuce/Laine/Salat/Letchup, 2004-03-31
- 7 -

7. Table of Characteristics/ Tableau des caractères/ Merkmalstabelle/ Tabla de caracteres

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
1. (*)	Seed: color	Semence: couleur	Samen: Farbe	Semilla: color		
	white	blanche	weiß	blanco	Varpia	1
	yellow	jaune	gelb	amarillo	Dunango	2
	black	noire	schwarz	negro	Kagraner Sommer	3
2. (*)	Seedling: anthocyanin coloration	Plantelet: pigmentation anthocyanique	Kimpflanze: Anthocyanfärbung	Plántula: pigmentación antocianica		
	absent	absente	fehlernd	ausente	Varpia	1
	present	présente	vorhanden	presente	Pirat	9
3.	Seedling: size of cotyledons (fully developed)	Plantelet: taille de cotyledons à complet développement	Kimpflanze: Größe des Keimblatts (voll entwickelt)	Plántula: tamaño del cotiledón (plétamente desarrollado)		
	small	petit	klein	pequeño	Romance	3
	medium	moyen	mittel	medio	Expresse	5
	large	grand	groß	grande	Varpia	7

EPOV

Relationship between functions

(a) **GROUPING CHARACTERISTICS** selected from the Table of Characteristics should, in general, **receive an asterisk** in the Table of Characteristics and be **included in the Technical Questionnaire**.

(b) **TQ CHARACTERISTICS** selected from the Table of Characteristics should, in general, **receive an asterisk** in the Table of Characteristics and be **used as grouping characteristics**. TQ characteristics are **not restricted** to those characteristics used as **grouping characteristics**;

(c) **ASTERISKED CHARACTERISTICS** are **not restricted** to those characteristics selected as **grouping or TQ characteristics**.

EPOV

TG 219-1
Perrilla/Perrilla/Perrilla/Perrilla, 2004-03-31
- 10 -

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota	
14. VG	Leaf blade: intensity of purple color of lower side	Limbe: intensité de la couleur pourpre de la face inférieure	Blattspitze: Intensität der Purpurfarbe der Unterseite	Limbo: intensidad del color púrpura del envés			
	QN (*)	very light	très claire	sehr hell	may claro	1	
		light	claire	hell	claro	Perline	3
		medium	moyenne	mittel	medio		5
		dark	foncée	dunkel	oscuro	Porro	7
		very dark	très foncée	sehr dunkel	may oscuro	Bora, Purple	9
15. VG	Leaf blade: profile	Limbe: profil	Blattspitze: Profil	Limbo: perfil			
	QN (*)	concave	concave	konkav	cóncavo	Porro	3
		plane	plan	flach	plano	Perges, Saesepul	5
	convex	convexe	konvex	convexo		7	

EPOV

4. TEST GUIDELINES (document TGP/7)

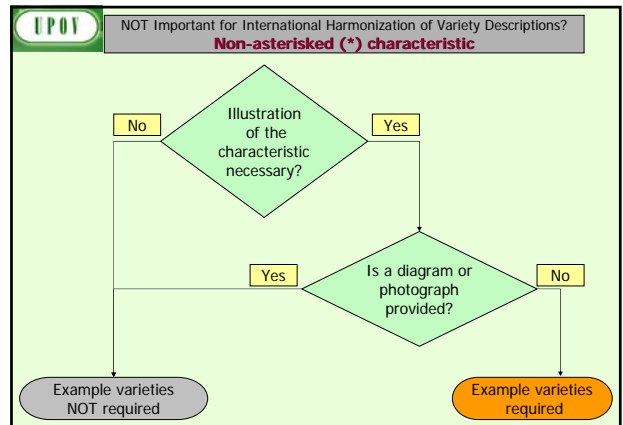
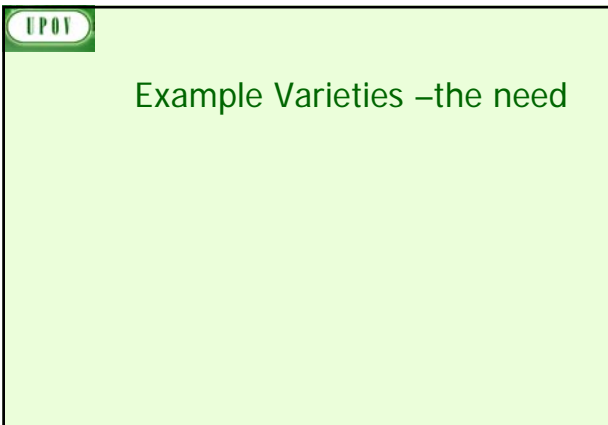
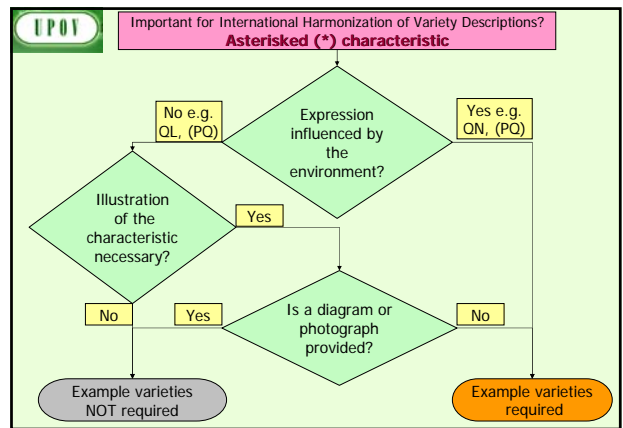
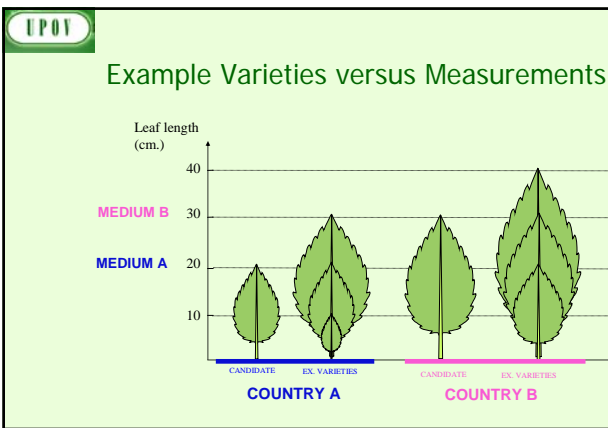
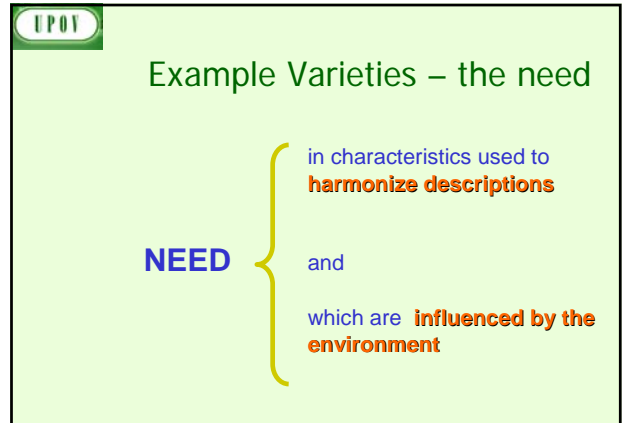
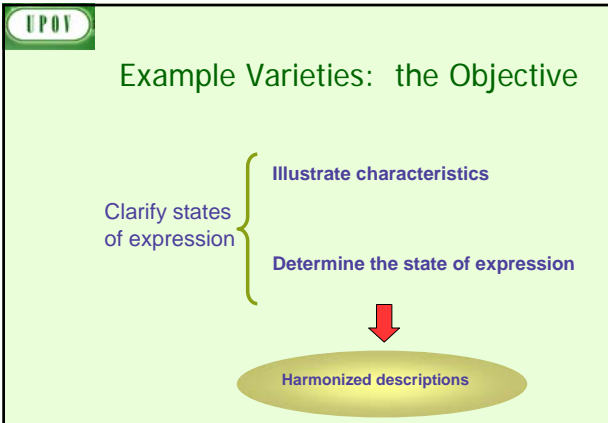
(e) Example varieties

EPOV

TG 139
Brachecoma/Bianca/Grauf/Hirschen, 2003-04-06
- 7 -

7. Table of Characteristics/ Tableau des caractères/ Merkmalstabelle/ Tabla de caracteres

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
1. (*)	Plant: growth type	Plante: type de croissance	Pflanze: Wuchstyp	Planta: tipo de crecimiento		
	QN (*)	leafy clusters	en grappe à la base	traube Blüschel	en racimos basales	1
	tufted	caulimonté	buschig	caulimonté		2
2. (*)	Club: curvature with ribs: number of stems	Leurre: courbure de la tige: nombre de tiges	Stange: Krümmung mit Rippen: Anzahl Triebe	Stela: curvatura con nervios: número de tallos		
	QN (*)	upright	dressées	aufrecht	erecto	1
		semi upright	demi-dressées	halbaufrecht	semierecto	
	horizontal	horizontales	horizontal	horizontal		5
3.	Club: curvature with ribs: number of stems	Leurre: courbure de la tige: nombre de tiges	Stange: Krümmung mit Rippen: Anzahl Triebe	Stela: curvatura con nervios: número de tallos		
	QN (*)	low	peu développées	klein	bajo	3
		medium	moyennement développées	mittel	medio	
	steep	très développées	groß	alto		7
4. (*)	Plant: height including flowers	Plante: hauteur: fleurs comprises	Pflanze: Höhe einschließlich Blüten	Planta: altura: incluidas las flores		
	QN (*)	short	basse	stumpf	corta	Mardi Gros
	medium	moyenne	mittel	media	Brookdale	5
	tall	élevée	hoch	larga	Happy Face Pink	7



EPOV

Example Varieties - availability

widely and freely available

- National Authority
- DUS examiners
- Breeders

EPOV

Example Varieties number

All desired characteristics covered with the **minimum** number of example varieties

EPOV

Example Varieties within the collection

must show the range of expression in the collection

- QN
 - 3 : short
 - 5 : medium
 - 7 : long
- PQ:
 - cover the whole range

EPOV

Example Varieties - agreement

Proposed by the **Leading Expert** of the TG (in cooperation with interested experts)

Accepted if **no objections** are presented

EPOV

Example Varieties Fluctuation

Maintain the expression for the characteristic in relation to the other varieties in the collection

EPOV

Example Varieties - multiple sets

Regional Sets
Different types

clear criteria for creating the sets !

UPOV

4. TEST GUIDELINES (document TGP/7)

**(f) The process for developing UPOV
Test Guidelines**

UPOV **EXAMPLE (New Test Guidelines)**

Test Guidelines: *Plantus magnifica* L.
(Common name: **Alpha**)

Technical Working Party: **TWX**

TWX (2005):	Alpha (proj. 1)
TWX (2006):	Alpha (proj. 2)
TWX (2007):	Alpha (proj. 3)
Enlarged Editorial Committee (2008):	Alpha (proj. 4)
Technical Committee (2008):	Alpha (proj. 5)
Final adopted document (2008):	TG/500/1

UPOV **Test Guidelines**

- **257 Test Guidelines** adopted

but...

- **>2,500 genera and species** with varieties examined for PBR

UPOV

5. UPOV DATABASES

UPOV **PRIORITY for UPOV Test Guidelines**


PRIORITY for species or crops with high:

- number of **authorities** receiving PBR applications;
- number of **PBR applications**;
- number of **foreign applications** received by UPOV members;
- **economic importance**;
- level of **breeding activity**

UPOV **Article 20 of the 1991 Act
(Variety denominations)**


(2) [*Characteristics of the **denomination***]

In particular, it **must be different from every denomination** which designates, in the territory of any Contracting Party, **an existing variety** of the same plant species or of a closely related species.



UPOV

GENIE Database (Genus / species)



Search Crop / Species: Results

Query: tomato
Total items found: 5

UPOV Code	Botanical Names	English	French	German	Spanish
LYCOP_BEL	<i>Cydonia oblonga</i> <i>belacea</i> (Cav.) Scheidt. <i>Solanum betaceum</i> Cav.	Tomatillo; Tree Tomato; Tree- tomato	Tomate en arbre	Baumtomate	Arbol tomate; Tomate serrano
LYCOP_ESC	<i>Lycopersicon</i> <i>esculentum</i> Mill. <i>Lycopersicon</i> <i>esculentum</i> P. Mill.	Tomato	Tomate	Tomate	Tomate
LYCOP_ESC_CER	<i>Lycopersicon</i> <i>esculentum</i> Mill. var. <i>cerasiforme</i> (Dunal) A. Gray	Cherry tomato	Tomate cerise	Kirschtomate	Tomatillo
LYCOP_ESC_ESC	<i>Lycopersicon</i> <i>esculentum</i> Mill. var. <i>esculentum</i> <i>Lycopersicon</i> <i>esculentum</i> P. Mill. nom. cons. var. <i>esculentum</i> <i>Lycopersicon</i> (L.) H. Kartl. <i>Lycopersicon</i> <i>lycopersicon</i> (L.) Kartl. ex Farwell; <i>Solanum</i>	Tomato	Tomate	Tomate	Tomate; Tomatera

UPOV

GENIE Database

Variety denomination related information
Protection offered by UPOV members

DUS information

- UPOV Test Guidelines
- practical experience of UPOV (document TC/44/4)
- cooperation in DUS examination (document C/41/5)

Lycopersicon esculentum Mill. var. *cerasiforme* (Dunal) A. Gray (LYCOP_ESC_CER)

Names & Denomination Class

Names & Denomination Class | Protection | DUS Guidance and Cooperation

UPOV Principal Botanical Name: *Lycopersicon esculentum* Mill. var. *cerasiforme* (Dunal) A. Gray UPOV Code: LYCOP_ESC_CER

Other Botanical Names: *Lycopersicon esculentum* P. Mill. nom. cons. var. *esculentum*; *Lycopersicon* (L.) H. Kartl.; *Lycopersicon lycopersicon* (L.) Kartl. ex Farwell; *Solanum*

English Common Names: Cherry tomato

French Common Names: Tomate cerise

German Common Names: Kirschtomate

Spanish Common Names: Tomatillo

UPOV Variety Denomination Class: [List of Classes \(UPOV/201/121\)](#)

Family: Solanaceae

GENIE Database

Simple Search | Multiple Search Report

Search Crop / Species:

UPOV Code:

Search Authority:

by 2-letter ISO Code:

Lycopersicon esculentum Mill. var. *cerasiforme* (Dunal) A. Gray (LYCOP_ESC_CER)

Protection

Names & Denomination Class | Protection | DUS Guidance and Cooperation

UPOV Principal Botanical Name: *Lycopersicon esculentum* Mill. var. *cerasiforme* (Dunal) A. Gray UPOV Code: LYCOP_ESC_CER

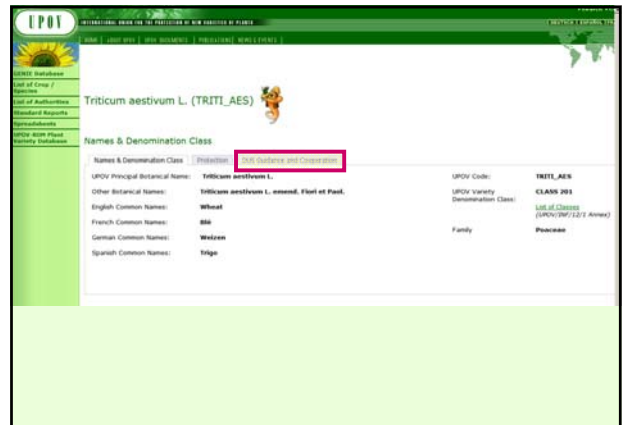
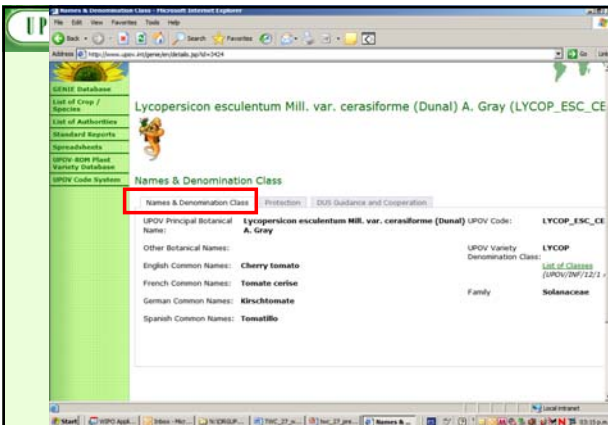
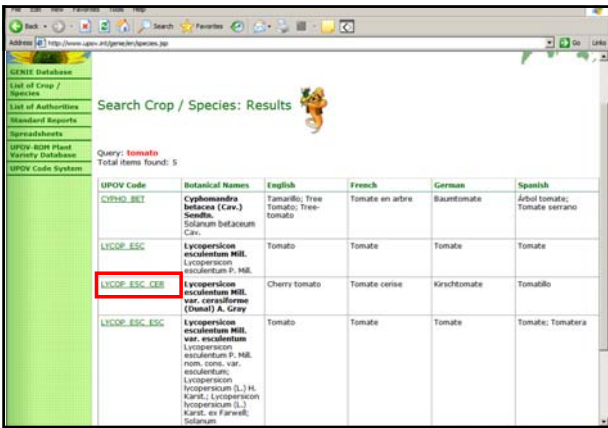
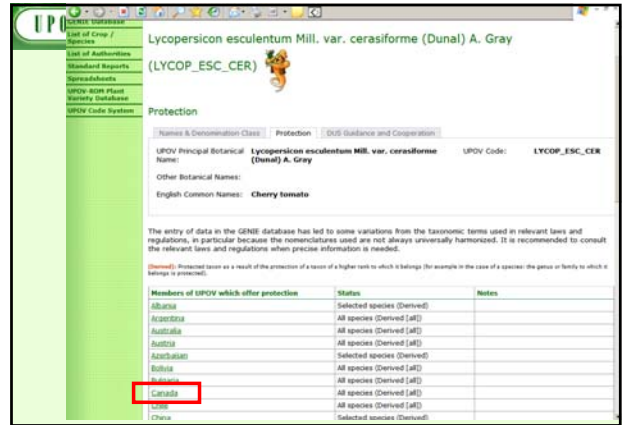
Other Botanical Names: *Lycopersicon esculentum* P. Mill. nom. cons. var. *esculentum*; *Lycopersicon* (L.) H. Kartl.; *Lycopersicon lycopersicon* (L.) Kartl. ex Farwell; *Solanum*

English Common Names: Cherry tomato

The entry of data in the GENIE database has led to some variations from the taxonomic terms used in relevant laws and regulations, in particular because the nomenclatures used are not always universally harmonized. It is recommended to consult the relevant laws and regulations when precise information is needed.

(Special) Protection as a result of the protection of a taxon of a higher rank to which it belongs (for example in the case of a species, the genus or family to which it belongs is protected).

Members of UPOV which offer protection	Status	Notes
Albania	Selected species (Derived)	
Armenia	All species (Derived [all])	
Australia	All species (Derived [all])	
Austria	All species (Derived [all])	
Azerbaijan	Selected species (Derived)	
Bolivia	All species (Derived [all])	
Bulgaria	All species (Derived [all])	
Canada	All species (Derived [all])	
China	All species (Derived [all])	
China	Selected species (Derived)	



Triticum aestivum L. (TRITL AES)

DUS Guidance and Cooperation

UPOV Principal Botanical Name: **Triticum aestivum L.** UPOV Code: **TRITL AES**

Other Botanical Name: **Triticum aestivum L. emend. Fiori et Paol.**

English Common Name: **Wheat**

UPOV Test Guidelines: **Wheat (TCG/11) - Com.**

Cooperation in DUS Examination (Key to abbreviations)

Authorities with Practical Experience

Agreements for Cooperation in DUS Examination

Authority	Notes
Albania	
Australia	
Azerbaijan	

Offering Authority / Examination Office	Authority Receiving Examination Reports	Notes
Albania	European Community	

Authorities with Practical Experience

Notes in parentheses indicate experience at the level of a higher taxonomic rank (for example in the case of a species there is experience at the level of the genus to which it belongs).

Authority	Notes
Albania	
Australia	
Azerbaijan	
Bahrain	
Bolivia	
Canada	
China	
Croatia	
Czech Republic	
Denmark	
European Community/Community Plant Variety Office (CPVO)	
Finland	
France	
Germany	
Hungary	
Israel	
Japan	
Korea	
Madagascar	
Malaysia	
Maldives	
Mexico	
Netherlands	
New Zealand	
Paraguay	
Poland	
Romania	
Republic of Korea	
Russia	
Sri Lanka	
Taiwan	
Tanzania	
Thailand	
Ukraine	
United Kingdom	
USA	
Uzbekistan	
Vietnam	
Zimbabwe	

Agreements for Cooperation in DUS Examination

Notes in parentheses indicate experience at the level of a higher taxonomic rank (for example in the case of a species there is experience at the level of the genus to which it belongs).

Offering Authority / Examination Office	Authority Receiving Examination Reports	Notes
Albania	European Community/Community Plant Variety Office (CPVO)	
Australia	European Community/Community Plant Variety Office (CPVO)	
Azerbaijan	European Community/Community Plant Variety Office (CPVO)	
Bahrain	European Community/Community Plant Variety Office (CPVO)	
Bolivia	European Community/Community Plant Variety Office (CPVO)	
Canada	European Community/Community Plant Variety Office (CPVO)	
China	European Community/Community Plant Variety Office (CPVO)	
Croatia	European Community/Community Plant Variety Office (CPVO)	
Czech Republic	European Community/Community Plant Variety Office (CPVO)	
Denmark	European Community/Community Plant Variety Office (CPVO)	
Finland	European Community/Community Plant Variety Office (CPVO)	
France	European Community/Community Plant Variety Office (CPVO)	
Germany	European Community/Community Plant Variety Office (CPVO)	
Hungary	European Community/Community Plant Variety Office (CPVO)	
Israel	European Community/Community Plant Variety Office (CPVO)	
Japan	European Community/Community Plant Variety Office (CPVO)	
Korea	European Community/Community Plant Variety Office (CPVO)	
Madagascar	European Community/Community Plant Variety Office (CPVO)	
Malaysia	European Community/Community Plant Variety Office (CPVO)	
Maldives	European Community/Community Plant Variety Office (CPVO)	
Mexico	European Community/Community Plant Variety Office (CPVO)	
Netherlands	European Community/Community Plant Variety Office (CPVO)	
New Zealand	European Community/Community Plant Variety Office (CPVO)	
Paraguay	European Community/Community Plant Variety Office (CPVO)	
Poland	European Community/Community Plant Variety Office (CPVO)	
Romania	European Community/Community Plant Variety Office (CPVO)	
Republic of Korea	European Community/Community Plant Variety Office (CPVO)	
Russia	European Community/Community Plant Variety Office (CPVO)	
Sri Lanka	European Community/Community Plant Variety Office (CPVO)	
Taiwan	European Community/Community Plant Variety Office (CPVO)	
Tanzania	European Community/Community Plant Variety Office (CPVO)	
Thailand	European Community/Community Plant Variety Office (CPVO)	
Ukraine	European Community/Community Plant Variety Office (CPVO)	
United Kingdom	European Community/Community Plant Variety Office (CPVO)	
USA	European Community/Community Plant Variety Office (CPVO)	
Uzbekistan	European Community/Community Plant Variety Office (CPVO)	
Vietnam	European Community/Community Plant Variety Office (CPVO)	
Zimbabwe	European Community/Community Plant Variety Office (CPVO)	

Triticum aestivum L. (TRITL AES)

DUS Guidance and Cooperation

UPOV Principal Botanical Name: **Triticum aestivum L.** UPOV Code: **TRITL AES**

Other Botanical Name: **Triticum aestivum L. emend. Fiori et Paol.**

English Common Name: **Wheat**

UPOV Test Guidelines: **Wheat (TCG/11) - Com.**

Cooperation in DUS Examination (Key to abbreviations)

Authorities with Practical Experience

Agreements for Cooperation in DUS Examination

Authority	Notes
Albania	
Australia	
Azerbaijan	

Offering Authority / Examination Office	Authority Receiving Examination Reports	Notes
Albania	European Community	

Utilization of Existing DUS Reports

"<->" (utilizing) indicates that the authority specified in "providing" column will, in general, provide existing DUS reports to any member of the Union.

"<->" (providing) indicates that the authority specified in the "utilizing" column will, in general, utilize existing DUS reports provided by any member of the Union.

(); Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

Utilizing Authority	Providing Authority / Examination Office	Notes
<->	(Australia)	
<->	(Canada)	
<->	(European Community/Community Plant Variety Office (CPVO))	
<->	(Uruguay)	
<->	(Germany)	
(Australia)	<->	
Austria	Slovenia	
Croatia	Austria	
Croatia	France	
Croatia	Hungary	
Czech Republic	Poland	
Denmark	France	
	Germany	
	Netherlands	
	United Kingdom	

Authorities with Practical Experience

Notes in parentheses indicate experience at the level of a higher taxonomic rank (for example in the case of a species there is experience at the level of the genus to which it belongs).

Authority	Notes
Albania	
Australia	
Azerbaijan	
Bahrain	
Bolivia	
Canada	
China	
Croatia	
Czech Republic	
Denmark	
European Community/Community Plant Variety Office (CPVO)	
Finland	
France	
Germany	
Hungary	
Israel	
Japan	
Korea	
Madagascar	
Malaysia	
Maldives	
Mexico	
Netherlands	
New Zealand	
Paraguay	
Poland	
Romania	
Republic of Korea	
Russia	
Sri Lanka	
Taiwan	
Tanzania	
Thailand	
Ukraine	
United Kingdom	
USA	
Uzbekistan	
Vietnam	
Zimbabwe	

Agreements for Cooperation in DUS Examination

Notes in parentheses indicate experience at the level of a higher taxonomic rank (for example in the case of a species there is experience at the level of the genus to which it belongs).

Offering Authority / Examination Office	Authority Receiving Examination Reports	Notes
Albania	European Community	
Australia	European Community/Community Plant Variety Office (CPVO)	
Azerbaijan	European Community/Community Plant Variety Office (CPVO)	
Bahrain	European Community/Community Plant Variety Office (CPVO)	
Bolivia	European Community/Community Plant Variety Office (CPVO)	
Canada	European Community/Community Plant Variety Office (CPVO)	
China	European Community/Community Plant Variety Office (CPVO)	
Croatia	European Community/Community Plant Variety Office (CPVO)	
Czech Republic	European Community/Community Plant Variety Office (CPVO)	
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France	European Community/Community Plant Variety Office (CPVO)	
Germany	European Community/Community Plant Variety Office (CPVO)	
Hungary	European Community/Community Plant Variety Office (CPVO)	
Israel	European Community/Community Plant Variety Office (CPVO)	
Japan	European Community/Community Plant Variety Office (CPVO)	
Korea	European Community/Community Plant Variety Office (CPVO)	
Madagascar	European Community/Community Plant Variety Office (CPVO)	
Malaysia	European Community/Community Plant Variety Office (CPVO)	
Maldives	European Community/Community Plant Variety Office (CPVO)	
Mexico	European Community/Community Plant Variety Office (CPVO)	
Netherlands	European Community/Community Plant Variety Office (CPVO)	
New Zealand	European Community/Community Plant Variety Office (CPVO)	
Paraguay	European Community/Community Plant Variety Office (CPVO)	
Poland	European Community/Community Plant Variety Office (CPVO)	
Romania	European Community/Community Plant Variety Office (CPVO)	
Republic of Korea	European Community/Community Plant Variety Office (CPVO)	
Russia	European Community/Community Plant Variety Office (CPVO)	
Sri Lanka	European Community/Community Plant Variety Office (CPVO)	
Taiwan	European Community/Community Plant Variety Office (CPVO)	
Tanzania	European Community/Community Plant Variety Office (CPVO)	
Thailand	European Community/Community Plant Variety Office (CPVO)	
Ukraine	European Community/Community Plant Variety Office (CPVO)	
United Kingdom	European Community/Community Plant Variety Office (CPVO)	
USA	European Community/Community Plant Variety Office (CPVO)	
Uzbekistan	European Community/Community Plant Variety Office (CPVO)	
Vietnam	European Community/Community Plant Variety Office (CPVO)	
Zimbabwe	European Community/Community Plant Variety Office (CPVO)	

Utilization of Existing DUS Reports

"<->" (utilizing) indicates that the authority specified in "providing" column will, in general, provide existing DUS reports to any member of the Union.

"<->" (providing) indicates that the authority specified in the "utilizing" column will, in general, utilize existing DUS reports provided by any member of the Union.

(); Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

Utilizing Authority	Providing Authority / Examination Office	Notes
<->	(Australia)	
<->	(Canada)	
<->	(European Community/Community Plant Variety Office (CPVO))	
<->	(Uruguay)	
<->	(Germany)	
(Australia)	<->	
Austria	Slovenia	
Croatia	Austria	
Croatia	France	
Croatia	Hungary	
Czech Republic	Poland	
Denmark	France	
	Germany	
	Netherlands	
	United Kingdom	

Utilization of Existing DUS Reports

"<=>" (utilizing) indicates that the authority specified in "providing" column will, in general, provide existing DUS reports to any member of the Union.
 "<=>" (providing) indicates that the authority specified in the "utilizing" column will, in general, utilize existing DUS reports provided by any member of the Union.
 (): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

Utilizing Authority	Providing Authority / Examination Office	Notes
<=>	(Australia)	
<=>	(Canada)	
<=>	(European Community (Community Plant Variety Office (CPVO)))	
<=>	(Uruguay)	
<=>	(Germany)	
<=>	(Australia)	<=>
Austria	Slovenia	
Croatia	Austria	
Croatia	France	
Croatia	Hungary	
Czech Republic	Poland	
Denmark	France	
	Germany	
	Netherlands	
	United Kingdom	

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UPOV Website

http://www.upov.int

(e-mail: upov.mail@upov.int)

Utilization of Existing DUS Reports

"<=>" (utilizing) indicates that the authority specified in "providing" column will, in general, provide existing DUS reports to any member of the Union.
 "<=>" (providing) indicates that the authority specified in the "utilizing" column will, in general, utilize existing DUS reports provided by any member of the Union.
 (): Genus or species covered by agreement for a taxon of a higher rank to which it belongs (e.g. in the case of a species: the genus or family is covered by an agreement).

Utilizing Authority	Providing Authority / Examination Office	Notes
<=>	(Australia)	
<=>	(Canada)	
<=>	(European Community (Community Plant Variety Office (CPVO)))	
<=>	(Uruguay)	
<=>	(Germany)	
<=>	(Australia)	<=>
Austria	Slovenia	
Croatia	Austria	
Croatia	France	
Croatia	Hungary	
Czech Republic	Poland	
Denmark	France	
	Germany	
	Netherlands	
	United Kingdom	

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Welcome

The International Union for the Protection of New Varieties of Plants (UPOV) is an intergovernmental organization with headquarters in Geneva (Switzerland).

UPOV was established by the International Convention for the Protection of New Varieties of Plants. The Convention was adopted in Paris in 1961 and it was revised in 1972, 1978 and 1991. The objective of the Convention is the protection of new varieties of plants by an intellectual property right.

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6. THE UPOV WEBSITE

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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.

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Cooperation in Examination
Plant Variety Database
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LIST OF UPOV PUBLICATIONS*

The following UPOV publications are available on request:

Abbreviations:
A = Arabic, C = Chinese, D = Dutch, E = English, F = French, FEG = French/English/German, German, I = Italian, J = Japanese, P = Portuguese, R = Russian, S = Spanish

221	(A)	International Convention for the Protection of
	(C)	Plants,
	(D)	text of 1991 only
	(E)	
	(F)	
	(G)	
	(J)	
	(P)	
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Impact Study **UPOV Report on the Impact of Plant Variety Protection** (UPOV Publication 33(0)) (Adobe PDF)

Breeder's exemption **Breeder's exemption in the 1978 and the 1991 Act of the UPOV Convention** (Adobe PDF)

Notion of Breeder and Common Knowledge **The Notion of Breeder and Common Knowledge** (Adobe PDF)

Genetic Resources and Benefit-Sharing **Reply of January 23, 2009, to the letter of the Executive Secretary of the Secretariat of the Convention on Biological Diversity (CBD) of December 19, 2008, providing a peer review of the Draft Study on the relationship between the ABS International Regimes and other international instruments which govern the use of genetic resources: The World Trade Organization (WTO); the World Intellectual Property Organization (WIPO); and the Union for the Protection of New Varieties of Plants (UPOV)** (Letter of UPOV) (Comments of UPOV on Draft Study)

Letter to the Executive Secretary of the Secretariat of the Convention on Biological Diversity (CBD) containing a decision of the Council of UPOV for consideration by the Conference of Parties of the CBD at its ninth meeting to be held in Bonn, Germany, from May 19 to 30, 2009 (Adobe PDF)

Access to Genetic Resources and Benefit-Sharing (Reply of UPOV to the notification of April 22, 2005, from the Executive Secretary of the Convention on Biological Diversity (CBD)) (Adobe PDF)

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UPOV DISTANCE LEARNING COURSE DL-205 "Introduction to the UPOV System of Plant Variety Protection Under the UPOV Convention" (Course Dates: May 4 to June 7, 2009) (on-line registrations open)

UPOV Press Release No. 78 (Geneva, December 12, 2008) Costa Rica accedes to the UPOV Convention (Adobe PDF)

Second World Seed Conference responding to the challenges of a changing world: The role of new plant varieties and high quality seed in agriculture FAO, Rome, September 8 to 20, 2009 (Etoarun) www.aosdseedconference.org

UPOV Press Release No. 77 (Geneva, October 20, 2008) New Secretary-General outlines future priorities for UPOV (Adobe PDF)

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Rules Governing the Granting of Observer Status (available in [Adobe PDF](#) format)

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