

UPOV

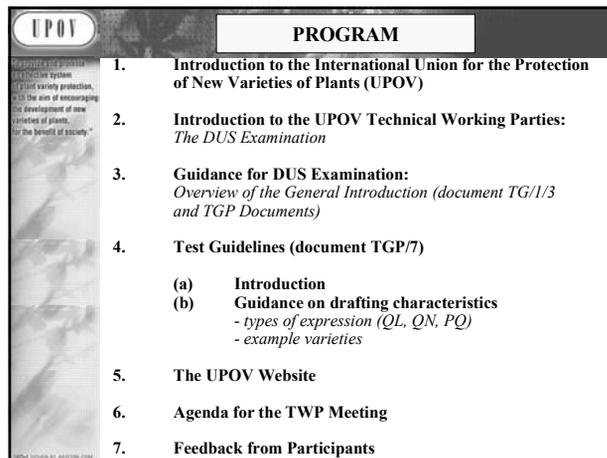
My purpose is to promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

**TECHNICAL WORKING PARTY
FOR
AGRICULTURAL CROPS**

*Thirty-fifth Session
Beijing, China*

PREPARATORY WORKSHOP

July 2, 2006

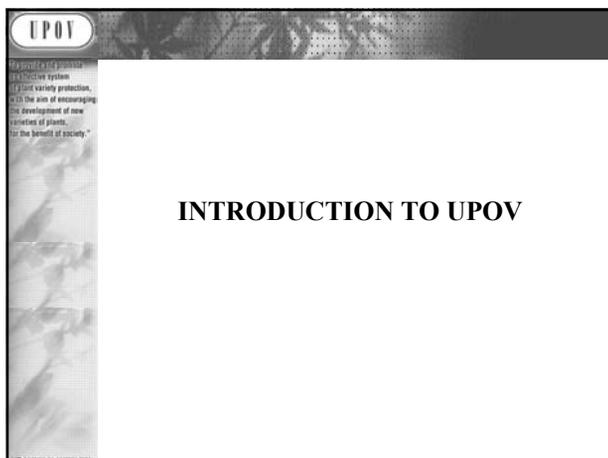


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PROGRAM

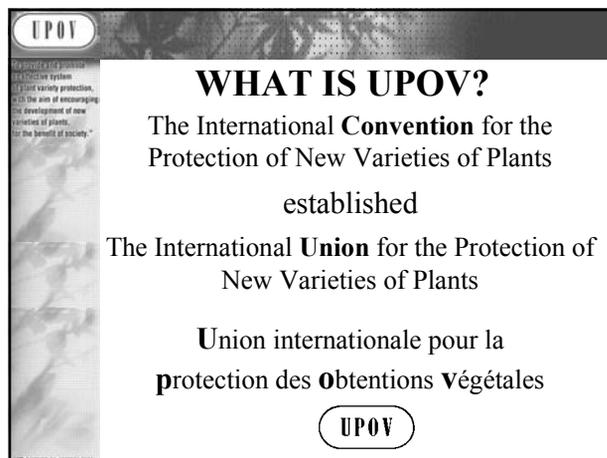
1. **Introduction to the International Union for the Protection of New Varieties of Plants (UPOV)**
2. **Introduction to the UPOV Technical Working Parties: *The DUS Examination***
3. **Guidance for DUS Examination: *Overview of the General Introduction (document TG/1/3 and TGP Documents)***
4. **Test Guidelines (document TGP/7)**
 - (a) **Introduction**
 - (b) **Guidance on drafting characteristics**
- types of expression (*QL, QN, PQ*)
- example varieties
5. **The UPOV Website**
6. **Agenda for the TWP Meeting**
7. **Feedback from Participants**



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INTRODUCTION TO UPOV



UPOV

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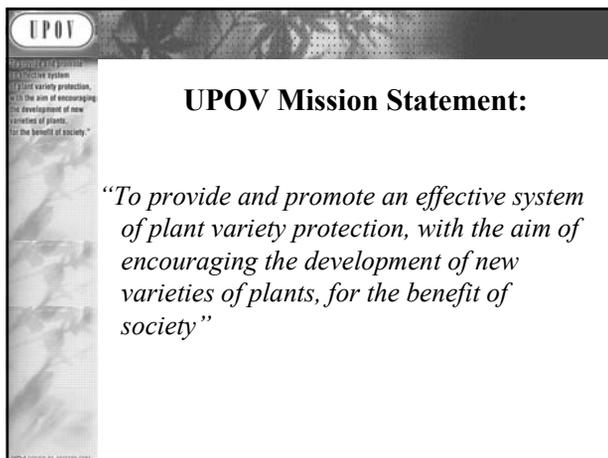
WHAT IS UPOV?

The International **Convention** for the Protection of New Varieties of Plants established

The International **Union** for the Protection of New Varieties of Plants

Union internationale pour la protection des **Obtentions Végétales**

UPOV

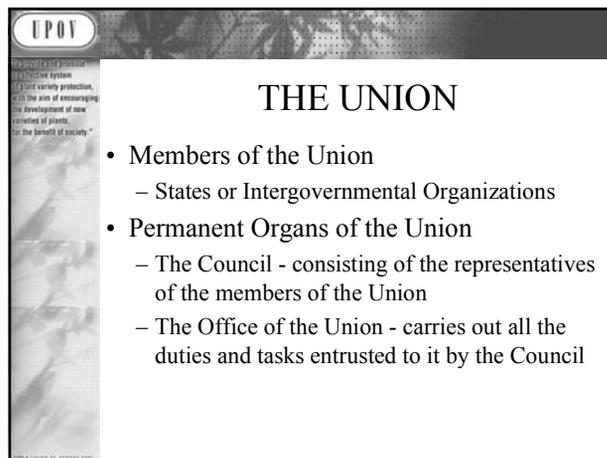


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UPOV Mission Statement:

“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”

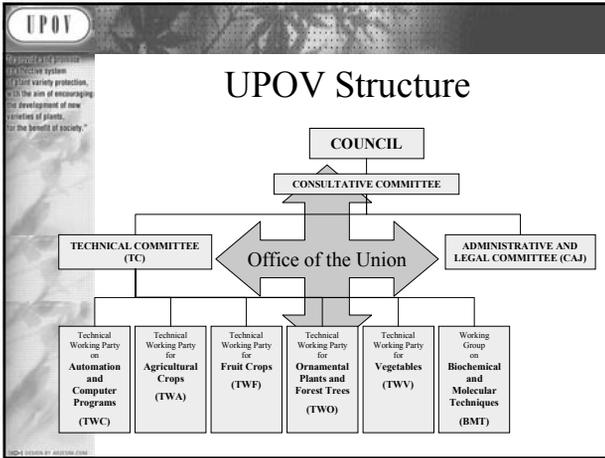


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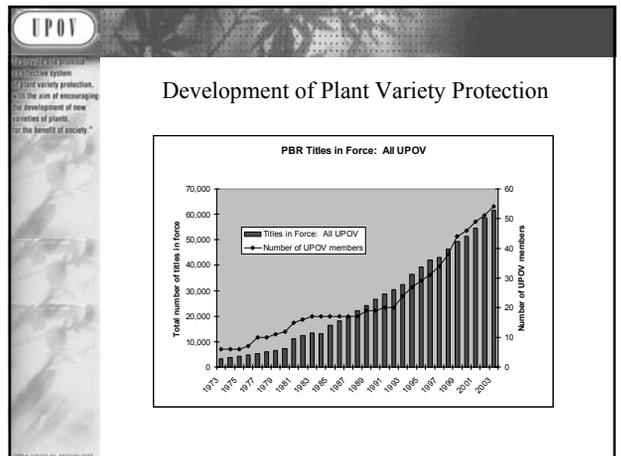
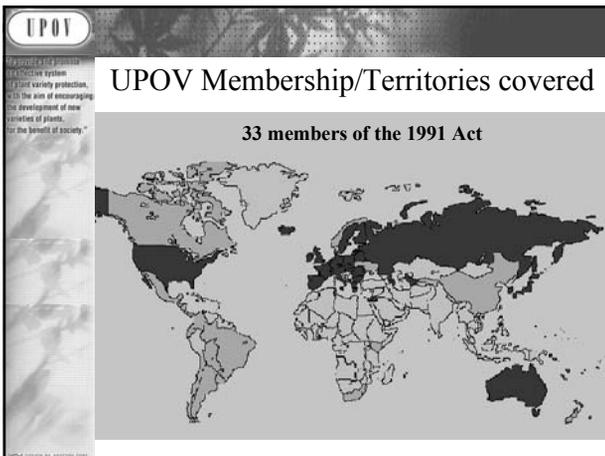
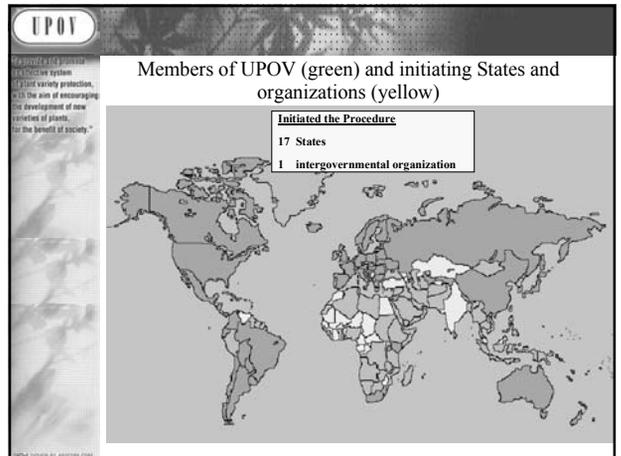
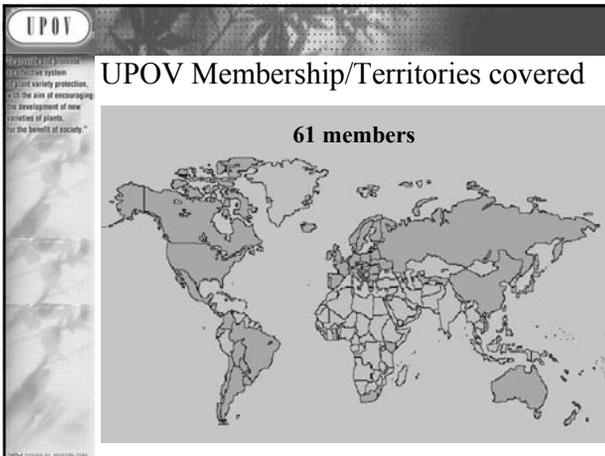
THE UNION

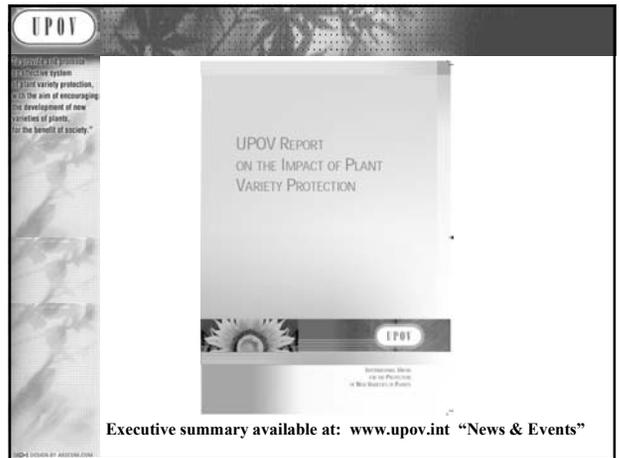
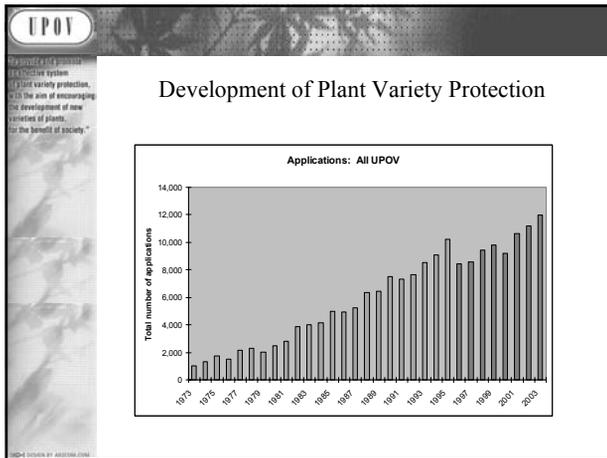
- **Members of the Union**
 - States or Intergovernmental Organizations
- **Permanent Organs of the Union**
 - The Council - consisting of the representatives of the members of the Union
 - The Office of the Union - carries out all the duties and tasks entrusted to it by the Council



PLANT VARIETY PROTECTION SITUATION

- 61 members of the Union
- 17 States have initiated the procedure for becoming members of the Union
- 1 intergovernmental organization has initiated the procedure for becoming members of the Union:
 - OAPI (16 countries)
- 47 States have contacted the Office of the Union for assistance in the development of legislation on plant variety protection





SECTION II. DEVELOPMENT OF THE UPOV SYSTEM OF PLANT VARIETY PROTECTION

UPOV MEMBERSHIP
 EXPANDING THE PROTECTION A CROSS PLANT GENERA AND SPECIES
 IMPLEMENTATION OF PLANT VARIETY PROTECTION
 EXPANSION OF UPOV: A BENEFIT FOR NEW AND OLD UPOV MEMBERS
 Older UPOV Members: the European Community Countries
 Older UPOV Members: Other Countries
 Newer UPOV Members

SECTION III. REPORTS ON STUDIES CONDUCTED IN INDIVIDUAL COUNTRIES

ARGENTINA

1. GENERAL VIEW OF AGRICULTURE IN THE COUNTRY
2. SHORT DESCRIPTION OF THE SEED INDUSTRY
3. PLANT VARIETY PROTECTION SYSTEM
4. IMPACT OF PLANT VARIETY PROTECTION
 - (a) Overall Trends of Varieties Available in the Country
 - (i) Number of Varieties
 - (ii) Improvement of Varieties
 - (b) Foreign Investment / International Dimension
 - (i) Introduction of Foreign Varieties
 - (ii) Development of Foreign Markets
 - (c) Domestic breeding
 - (i) Number of Varieties
 - (ii) Number of Breeders / Investment in Breeding
 - (iii) Structure of the Breeding Industry
 - (d) Summary

CHINA

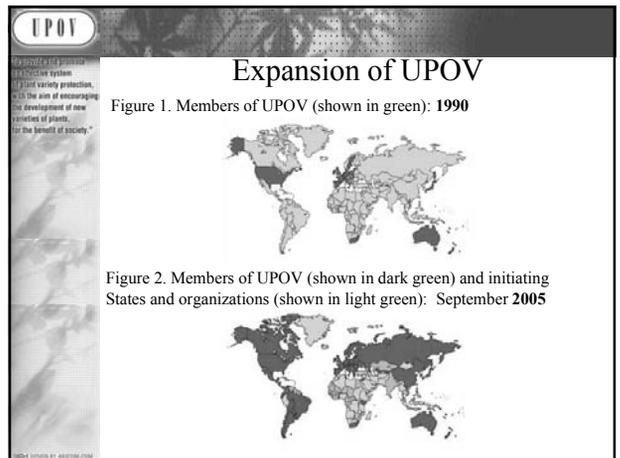
Kamil Idris (Secretary-General of UPOV)

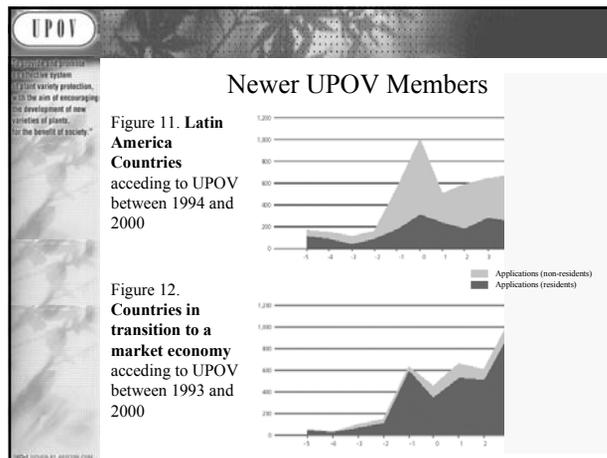
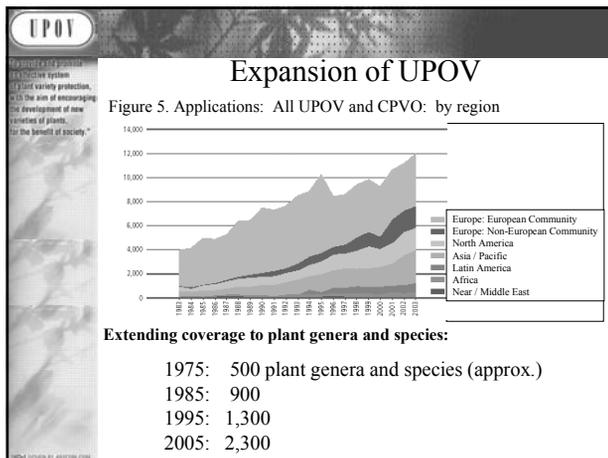
“...some very clear messages have emerged from this study, perhaps the most important being that the introduction of the **UPOV system of plant variety protection and membership of the International Union for the Protection of New Varieties of Plants (UPOV) can open a door to economic development, particularly in the rural sector...**”

“... an important conclusion is that the **UPOV system of plant variety protection provides an effective incentive for plant breeding in many different situations and in various sectors, and results in the development of new, improved varieties of benefit for farmers, growers and consumers...**”

Ing. Enriqueta Molina Macías
 (Director, National Service for Inspection and Seed Certification (SNICS), Mexico and President of the UPOV Council)

“It is perhaps worthwhile at the same time as reviewing those benefits to reflect on the importance of the plant genetic resources which form the raw material for the breeders' work. ...**Under the UPOV system, a breeding cycle of progression can continue to maximize the benefits of plant variety protection and plant breeding for the future.**”





SECTION III.
Reports on Studies Conducted in Individual Countries:

Argentina
 China
 Kenya
 Poland
 Republic of Korea

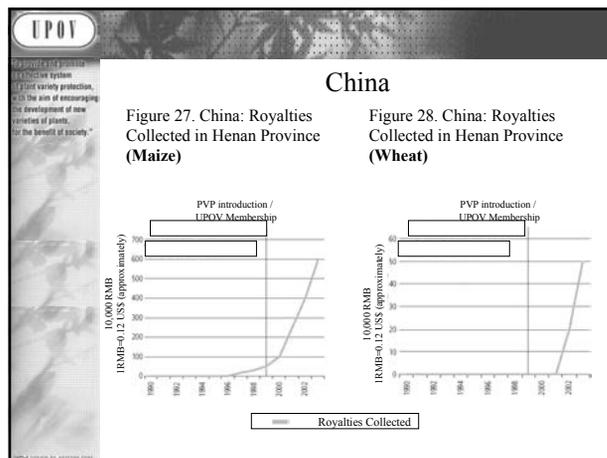
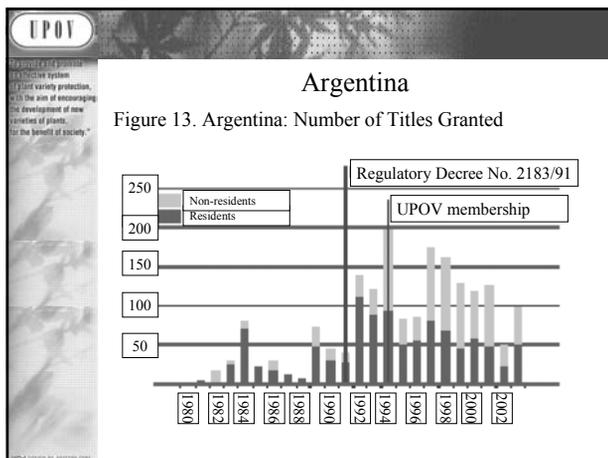
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Reports on Studies Conducted in Individual Countries:

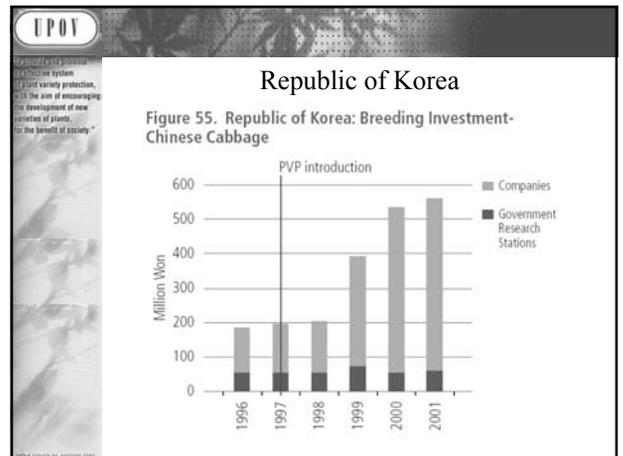
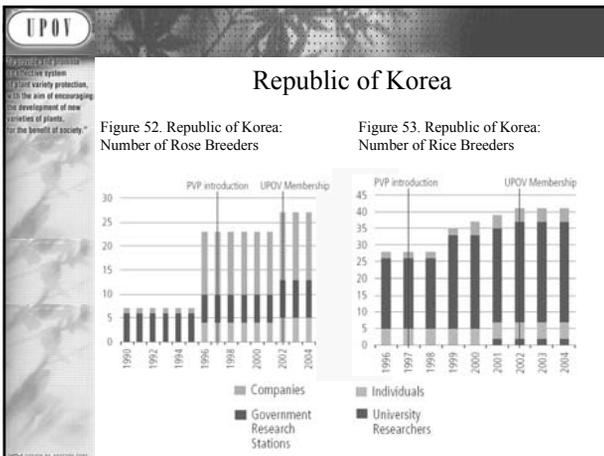
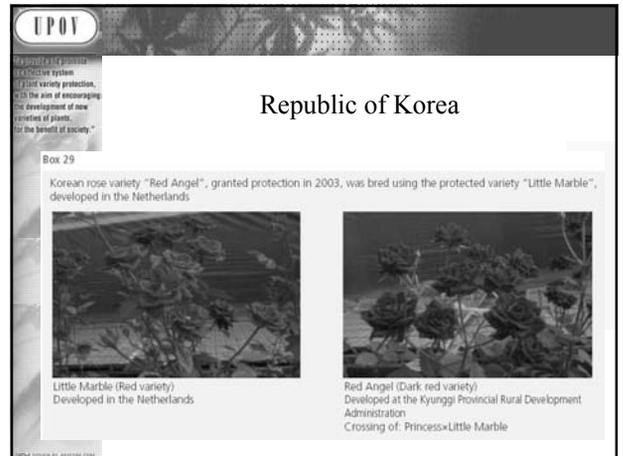
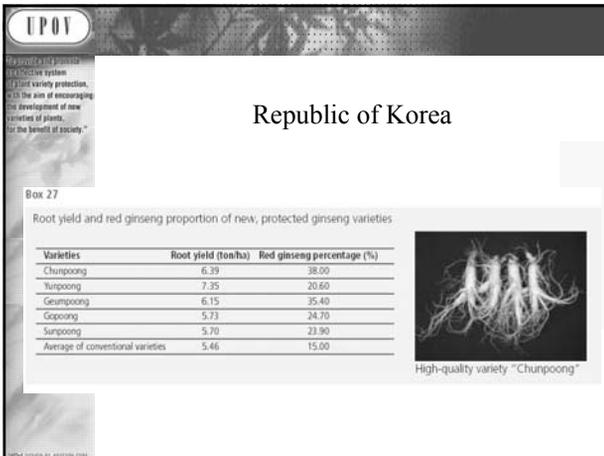
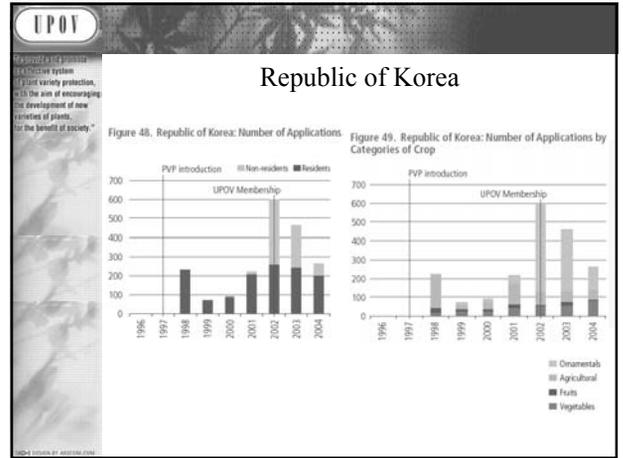
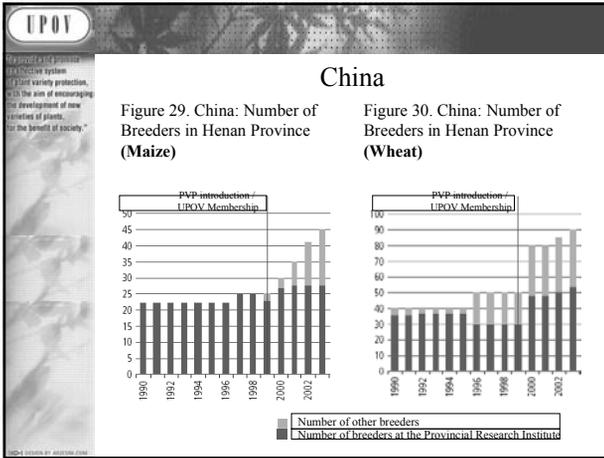
Chairman
 Evans O. Sikinyi (Kenya)

Country Study Representatives
 Argentina: Marcelo Labarta
 China: Lin Xiangming and Lu Bo (Ministry of Agriculture); Zhou Jianren (State Forestry Administration)
 Kenya: Evans O. Sikinyi
 Poland: Edward S. Gacek and Julia Borys
 Republic of Korea: Choi Keun-Jin

Advisors / Consultants
 Chris M.M. van Windon and Arnold J.P. van Wijk (Netherlands)

Coordinator
 Makoto Tabata (UPOV)





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UPOV in the Asia / Pacific Region

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Asia/Pacific Region

Members of the Union

- Australia (1991 Act)
- China
- Japan (1991 Act)
- New Zealand
- Republic of Korea
- Singapore (1991 Act)

Initiated the Procedure

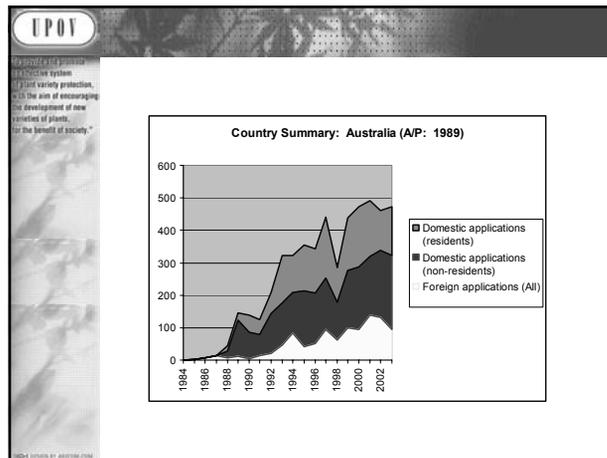
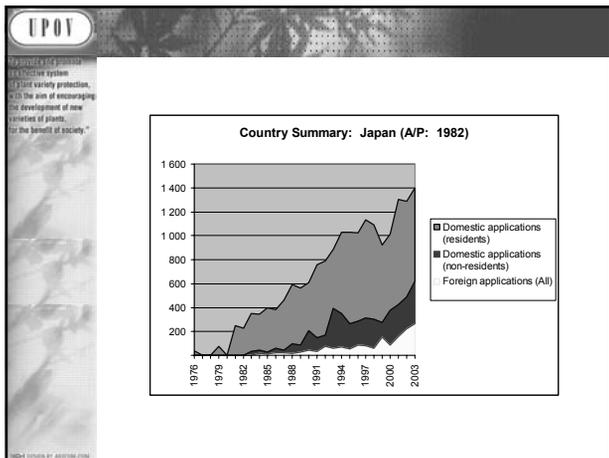
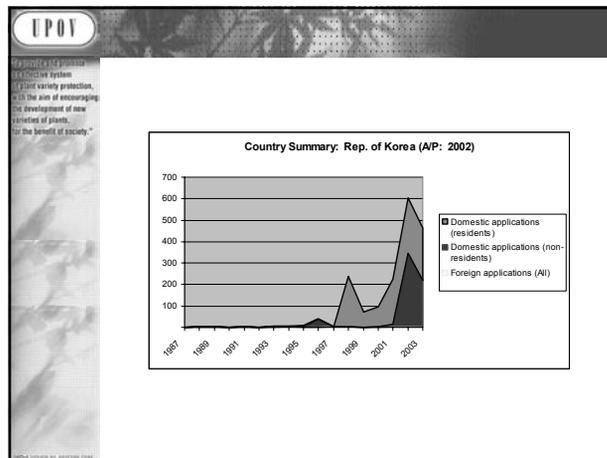
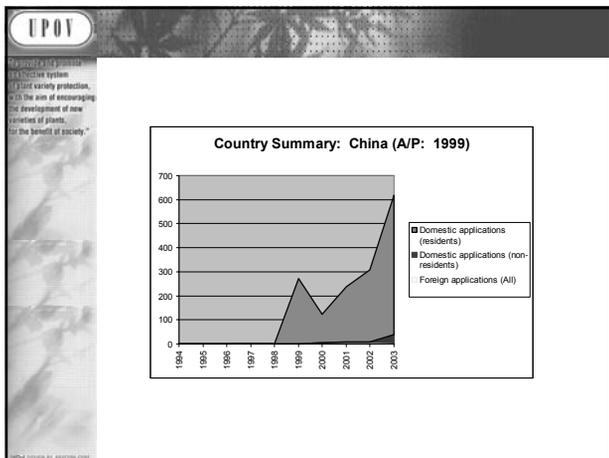
- India
- Malaysia
- Viet Nam

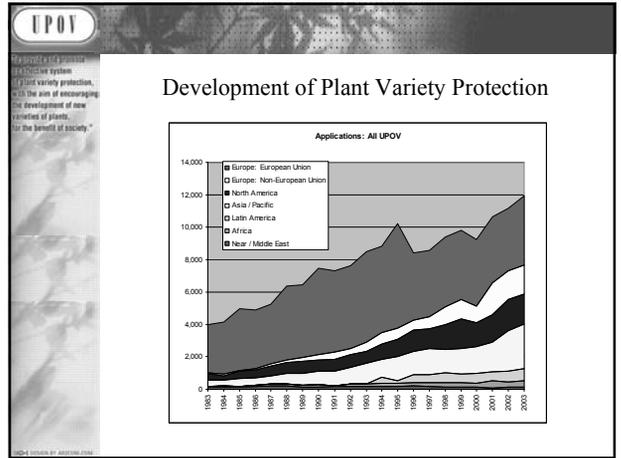
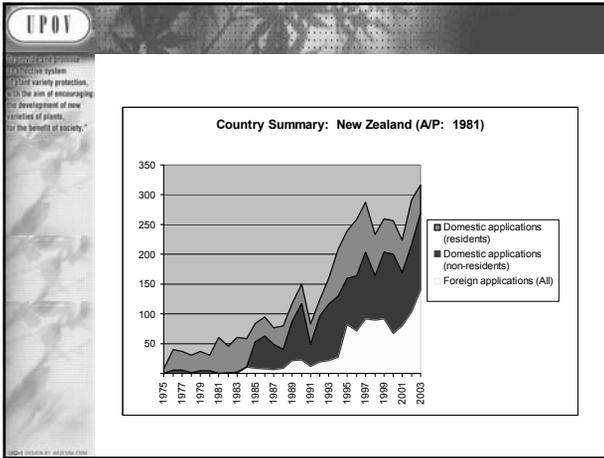
Contacted the Office

- Bangladesh
- Cambodia
- Fiji
- Indonesia
- Lao People's Democratic Republic
- Mongolia
- Myanmar
- Nepal
- Pakistan
- Philippines
- Sri Lanka
- Thailand
- Tonga



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TWP Venues

	TWA	TWC	TWF	TWO	TWV	BMT
1994	Spain	Israel	New Zealand	Australia	UK	France
1995	Germany	Poland	UK	Netherlands	Netherlands	Netherlands
1996	Greece	Germany	Israel	Israel	Czech Rep.	
1997	Ungary	Hungary	Netherlands	Denmark	Spain	United Kingdom
1998	France	Belgium	Australia	New Zealand	Poland	USA
1999	Canada	Finland	Slovakia	Czech Rep.	Germany	
2000	Sweden	Ukraine	Hungary	Hungary	France	France
2001	Mexico	Czech Rep.	Spain	Japan	Italy	Germany
2002	Brazil	Mexico	Argentina	Ecuador	Japan	
2003	Japan	Denmark	Canada	Canada	Netherlands	Japan
2004	Poland	Japan China (workshop)	Germany	Germany	Rep. of Korea	
2005	New Zealand	Canada	Japan	Rep. of Korea	Slovakia	USA
2006	China	Kenya	Brazil	Brazil	Mexico	Rep. of Korea

Introduction to the UPOV Technical Working Parties: The DUS Examination

-
- UPOV Convention (1991 act):**
- Chapter I - Definitions (breeders and varieties)
 - Chapter II - General Obligations
 - Genera and species to be protected
 - National treatment
 - Chapter III - Conditions for the Grant of the Breeder's Right
 - Chapter IV - Application for the Grant of the Breeder's Right (examination)
 - Chapters V-VII - The Rights of the Breeder (scope, exceptions, etc.)
 - Chapters VIII - X - About the Union and the Convention

THE CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Criteria to be satisfied

- NOVELTY
- DISTINCTNESS
- UNIFORMITY
- STABILITY

} "DUS" (DHS)

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THE CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Other conditions

- VARIETY DENOMINATION
- FORMALITIES
- PAYMENT OF FEES

NO OTHER CONDITIONS!

UPOV 1991 Act of the UPOV Convention

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Examination of the Application

(Article 12 of the 1991 Act of the UPOV Convention)

Any decision to grant a breeder's right shall require an **examination for compliance with the conditions under Articles 5 to 9***. In the course of the examination, the authority may grow the variety or carry out other necessary tests, cause the growing of the variety or the carrying out of other necessary tests, or take into account the results of growing tests or other trials which have already been carried out. For the purposes of examination, the authority may require the breeder to furnish all the necessary information, documents or material.

*Article 7, 8, 9 = Distinctness, Uniformity, Stability

UPOV 1991 Act of the UPOV Convention

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THE DUS EXAMINATION

- The meaning of "DUS"
- Nature of the DUS Examination
- Characteristics
- UPOV Guidance for Examination

UPOV 1991 Act of the UPOV Convention

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Nature of the DUS Examination

The "DUS Test" (field trial)



UPOV 1991 Act of the UPOV Convention

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DISTINCTNESS

Must be clearly distinguishable from any other variety whose existence is a matter of common knowledge

>>> **CHARACTERISTICS** <<<

which

- *may* have direct *commercial relevance*
e.g. Flower color (ornamental); Fruit color
- *but commercial relevance* NOT required - often no commercial value
e.g. Leaf shape

UPOV 1991 Act of the UPOV Convention

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DISTINCTNESS

Apple: Fruit color



UPOV 1991 Act of the UPOV Convention

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DISTINCTNESS

Apple: Fruit color



IMAGE SUPPLIED BY ABBOTT PIONEER

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DISTINCTNESS

Apple: Flower bud color



IMAGE SUPPLIED BY ABBOTT PIONEER

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DISTINCTNESS

Apple: Calyx

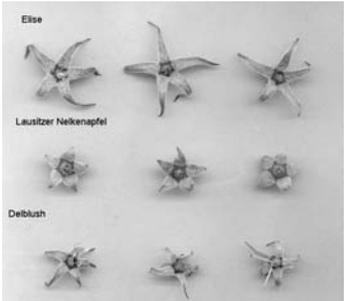


IMAGE SUPPLIED BY ABBOTT PIONEER

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DISTINCTNESS

Maize: Stem base color

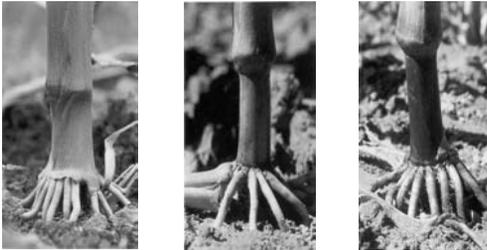


IMAGE SUPPLIED BY ABBOTT PIONEER

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- **DISTINCTNESS**
- **UNIFORMITY**
 - Must be *sufficiently* uniform in its relevant characteristics, *subject to the variation that may be expected from the particular features of its propagation*

IMAGE SUPPLIED BY ABBOTT PIONEER

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UNIFORMITY

Wheat: (Self-pollinated)



IMAGE SUPPLIED BY ABBOTT PIONEER

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Off-types

How many off-types should we accept?

The individual Test Guidelines fix for each crop:

- **the population standard** (percentage of off-types to be accepted if all individuals of the variety could be examined)
- **the acceptance probability** (probability of correctly accepting that a variety is uniform)

UPOV SYSTEM BY ANASTASIA POGGI

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Off-types

According to the size of the sample examined, statistical tables give the maximum number of off-types tolerated in that given samples

e.g.: *population standard = 1% and acceptance probability = 95%*

Sample size	Number of off-types allowed
1-5	0
6-35	1
36-82	2
83-137	3
138-198	4
199-262	5

UPOV SYSTEM BY ANASTASIA POGGI

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UNIFORMITY

Ryegrass: Spaced plants (Cross-pollinated)



UPOV SYSTEM BY ANASTASIA POGGI

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Relative Tolerance Limits

Cross-pollinated varieties, including mainly cross-pollinated and synthetic varieties, generally exhibit wider variations within the variety than vegetatively propagated or self-pollinated varieties and inbred lines of hybrid varieties, and it is more difficult to determine off-types.

Therefore, **relative tolerance limits**, for the range of variation, are set by comparison with comparable varieties, or types, already known.

The candidate variety should not be significantly less uniform than the comparable varieties.

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- **DISTINCTNESS**
- **UNIFORMITY**
- **STABILITY**
 - Relevant characteristics must remain unchanged after repeated propagation or, in the case of a particular cycle of propagation, at the end of each such cycle

UPOV SYSTEM BY ANASTASIA POGGI

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TESTING STABILITY

- In practice, it is **not usual to perform tests of stability** that produce results as certain as those of the testing of distinctness and uniformity.
- However, for many types of variety, **when a variety has been shown to be uniform, it can also be considered to be stable.**
- Furthermore, **if the variety is not stable, material produced will not conform to the characteristics of the variety**, and where the breeder is unable to provide material conforming to the characteristics of the variety, the breeder's right may be cancelled.
- Where appropriate, or in cases of doubt, **stability may be tested, either by growing a further generation, or by testing a new seed or plant stock** to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

UPOV SYSTEM BY ANASTASIA POGGI

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Selecting 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):

- results from a given genotype or combination of genotypes;
- is sufficiently consistent and repeatable in a particular environment;
- exhibits sufficient variation between varieties to be able to establish distinctness;
- is capable of precise definition and recognition;
- allows uniformity requirements to be fulfilled;
- 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.

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Selection of Characteristics

- Yield ???
- Straw strength ???

Etc.

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Selection of Characteristics

Criteria	Fruit color	Ear-glaucosity	Yield	Straw strength
(a) results from a given genotype or combination of genotypes	Yes	Yes	Yes	Yes
(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	(No)	(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	Yes
ACCEPTABILITY	Yes	Yes	No	No

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Special Characteristics: Disease Resistance

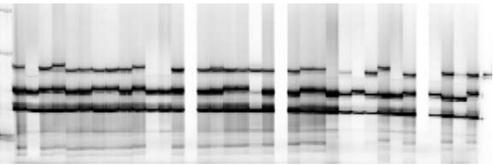
Criteria	Disease Resistance
(a) results from a given genotype or combination of genotypes	*Knowledge of nature of genetic control of resistance is important
(b) sufficiently consistent and repeatable in a particular environment	*Standardize conditions (greenhouse / laboratory) & methodology *Standardize 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
	<i>Difficult and expensive</i>

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Molecular Techniques?



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GUIDANCE FOR EXAMINATION

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Guidance for 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)

UPOV 1991/1992/1994/1995/1998/2001/2003/2005/2007/2008/2011/2015/2018/2021/2023

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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)

UPOV 1991/1992/1994/1995/1998/2001/2003/2005/2007/2008/2011/2015/2018/2021/2023

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TG/1/3 General Introduction

↓

"Associated" TGP Documents

Ref.	Title
TG/00	List of TGP Documents and Latest Issue Dates
TGP/1	General Introduction With Explanations
TGP/2	List of Test Guidelines Adopted by UPOV
TGP/3	Varieties of Common Knowledge
*TGP/4	Constitution and Management 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

*Priority

UPOV 1991/1992/1994/1995/1998/2001/2003/2005/2007/2008/2011/2015/2018/2021/2023

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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)

AND

- "Test Guidelines"
 - Species/Crop-specific recommendations developed by crop experts
 - TGP/7 "Development of Test Guidelines" adopted

UPOV 1991/1992/1994/1995/1998/2001/2003/2005/2007/2008/2011/2015/2018/2021/2023

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Test Guidelines

- 228 Test Guidelines adopted
- Further 63 to be discussed in 2006 (25 revisions / 38 new Test Guidelines)

UPOV 1991/1992/1994/1995/1998/2001/2003/2005/2007/2008/2011/2015/2018/2021/2023

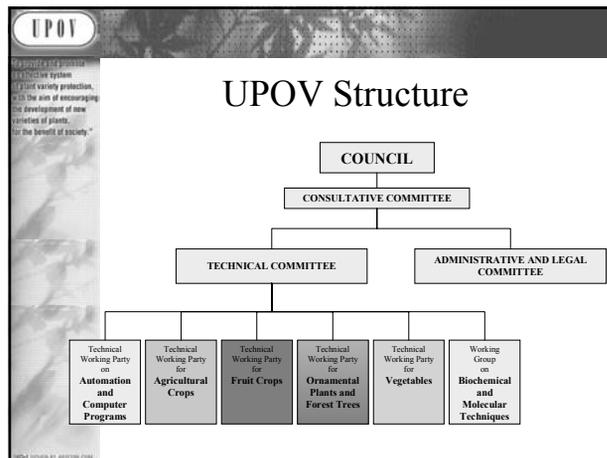
UPOV

UPOV Test Guidelines (“Test Guidelines”) are developed for **individual species / variety groupings**

- Basis for internationally harmonized examination of DUS testing through guidance on the features of DUS Testing e.g.
 - growing cycles of testing (usually one or two)
 - number of plants (6 to 600)
 - material to be tested
 - **characteristics to be examined** (around 30 - 100)
 - **example varieties**
 - uniformity standards

and facilitating harmonized variety descriptions on the basis of selected characteristics

- Drafted by Members’ Experts (Technical Working Parties)



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

TGP/7

“Development of Test Guidelines”

UPOV

1. Introduction

Purpose of document TGP/7:

- to provide guidance on the development of UPOV Test Guidelines
 - Procedure for the introduction and revision
 - Guidance for drafting
 - Standard format (template)
 - Standard wording
- to provide guidance on the development of individual authorities’ test guidelines, in the absence of UPOV Test Guidelines

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

Annex 1: The TG Template
 Annex 2: Additional Standard Wording for the TG Template
 Annex 3: Guidance Notes for the TG Template
 Annex 4: Collection of Approved Characteristics

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for the benefit of society."

2. Procedure for the Introduction and Revision of UPOV Test Guidelines

Rationale for the Procedure:

- ♣ Transparency
- ♣ Clear responsibility at each step

Who prepares the draft

- ♣ Leading expert, interested experts to prepare a draft
- ♣ Technical Working Party to establish a final draft
- ♣ Technical Committee to adopt

Participation

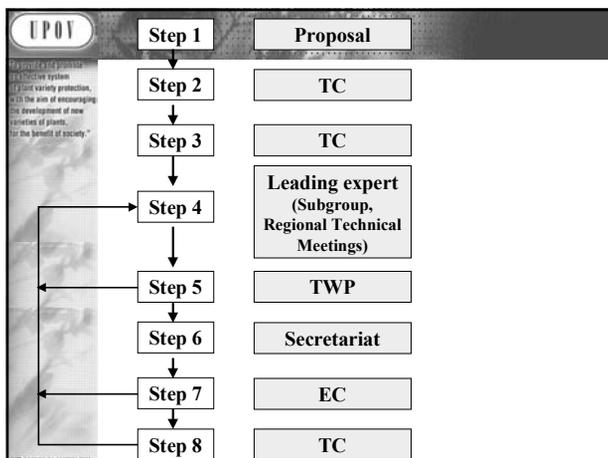
- ♣ International non-governmental organizations, invited to sessions of Technical Working Parties and Technical Committee as observers
- ♣ UPOV regional Technical Meetings

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2. Procedure for the Introduction and Revision of UPOV Test Guidelines

Step 1: Proposals for the Commissioning of Work
Step 2: Approval of the Proposal
Step 3: Allocation of Drafting Work
Step 4: Preparation of Draft TGs for the TWPs
Step 5: Consideration of the Draft TGs by the TWPs
Step 6: Submission of Draft TGs by the TWP
Step 7: Consideration of Draft TGs by the Editorial Committee
Step 8: Adoption of Draft TGs, by the Technical Committee



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The TG Template

(Annex I of document TGP/7)

- Format of the cover page,
- Universal Standard wording of 10 Chapters,
- Format of the Table of Characteristic (Chapter 7),
- Format of the Technical Questionnaire (Chapter 10)

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NATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

DRAFT

LETTERS

UPOV sub. MEDIC SAT
Medicage sativa L. and
Medicago sativa Martini

GIBBERINS

FOR THE COMBUSTION OF BLENDS
FORBIDING THEIR COMBUSTION AND STABILITY
prepared by experts from France
to be considered by the
Technical Working Party for Agricultural Crops at its distributed session,
to be held in Geneva, *Palais*, from June 28 to July 2, 2004

Alternative Names:

International name	English	French	German	Spanish
Medicage sativa L. and Medicago sativa Martini				

The purpose of the International Union for the Protection of New Varieties of Plants (UPOV) is to protect the rights of plant breeders and to encourage the development of new varieties of plants. UPOV is a member of the World Intellectual Property Organization (WIPO).

These guidelines "Test Guidelines" shall be used in conjunction with document TGP/7. "General Introduction to the Framework of UPOV's Guidelines and Methods, which is the International Development Plan for the Extension of the Framework of UPOV's Guidelines to all UPOV Members and "TGP" documents.

UPOV is a member of the World Intellectual Property Organization (WIPO).

This document was prepared at the request of the introduction of these Test Guidelines for use by the technical committees of UPOV and shall be used by all UPOV Members. It shall be used in conjunction with document TGP/7.

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

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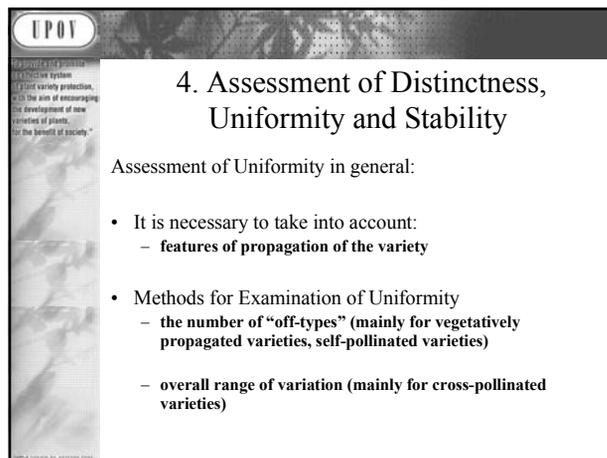
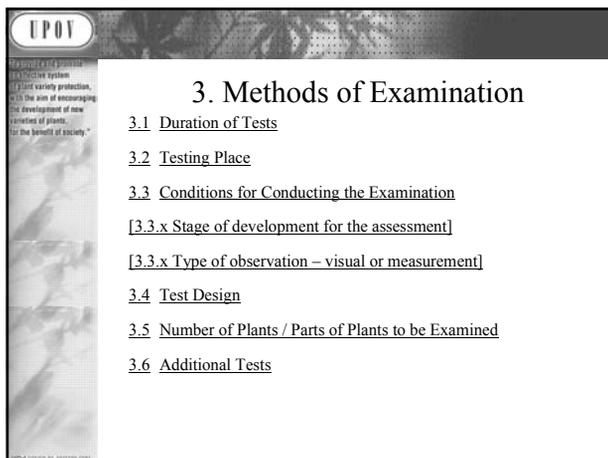
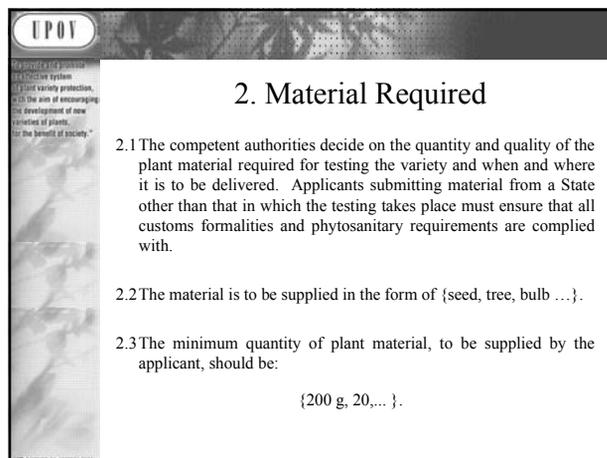
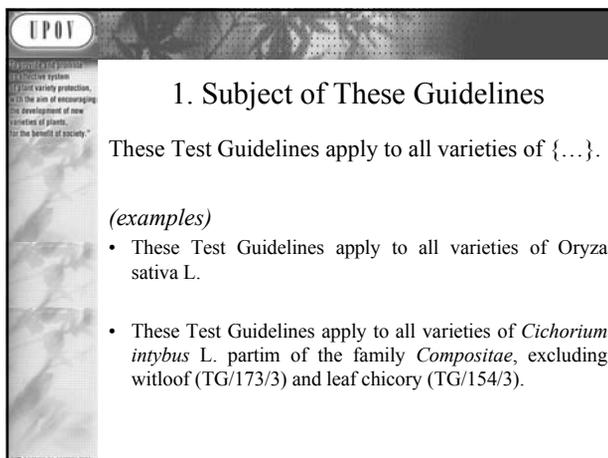
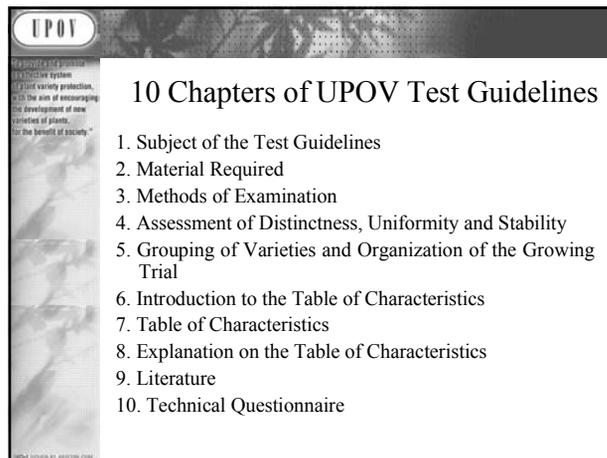
DRAFTERS KIT FOR TEST GUIDELINES

Calendar
Council
Restricted area

General Introduction to DUS
Test Guidelines in Word format
TGP/7 "Development of Test Guidelines"
Electronic TG Template
TGP/7 Annex 4:

- User notes
- Index
- Collection of Approved Characteristics

Additional Characteristics



UPOV

4. Assessment of Distinctness, Uniformity and Stability

4.2 Uniformity

[4.2.1] It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

[4.2.x] Standard wording for **cross-pollinated, hybrid, self-pollinated, vegetatively propagated varieties**.

- [4.2.x] [For the assessment of uniformity, a population standard of { x }% and an acceptance probability of at least { y }% should be applied. In the case of a sample size of { a } plants, { b } off-types are / 1 off-type is allowed.]

UPOV

4. Assessment of Distinctness, Uniformity and Stability

Counting the number of Off-types

According to the size of the sample examined, statistical tables give the maximum number of off-types tolerated in that give samples

e.g.: population standard = 1% and acceptance probability = 95%

Sample size	Number of off-types allowed
1-5	0
6-35	1
36-82	2
83-137	3
138-198	4
199-262	5

UPOV

5. Grouping of Varieties and Organization of the Growing Trial

5.1

5.2 Grouping characteristics.... can be used,..... :

- (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:

{...}

UPOV

6. Introduction to the Table of Characteristics

6.1 Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

6.1.2 Asterisked Characteristics (denoted by *)

6.2 States of Expression and Corresponding Notes

6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo- qualitative) is provided in the General Introduction.

6.4 Example Varieties

6.5 Legend

(*) Asterisked characteristic – see Section 6.1.2

(QL) Qualitative characteristic – see Section 6.3

(QN) Quantitative characteristic – see Section 6.3

(PQ) Pseudo-qualitative characteristic – see Section 6.3

UPOV

Format of the Table of Characteristic (Section 7)

Char. No. (*) (QL/QN/PQ)	English	Français	deutsch	español	Example Varieties/ Examples/ Beispielsorten/ Variedades	Note/ Nota
6.1.1	Order of characteristics in the Table of Characteristic N	6.1.1	6.1.1	6.1.1	6.1.1	
6.1.2	Asterisked characteristics	6.1.2	6.1.2	6.1.2	6.1.2	Notes
6.2	Recommendations for conducting the examination)	6.2	6.2	6.2	6.2	
6.3	Types of expression of the characteristic)	6.3	6.3	6.3	6.3	Notes
6.4	Other)	6.4	6.4	6.4	6.4	Notes

UPOV

Order of Characteristics

(a) Botanical order

(i) The botanical order is as follows:

- seed (for characteristics examined on seed submitted)
- seedling
- plant (e.g. growth habit)
- root
- root system or other subterranean organs,
- stem
- leaf (blade, petiole, stipule)
- inflorescence
- flower (calyx, sepal, corolla, petal, stamen, pistil)
- fruit
- seed (for characteristics examined on seed harvested from the growing trial).

(ii) with the characteristics of the whole organ followed by those of its parts, from large to small, outer/lower parts to inner/higher parts

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Harmonized text for the International Union for the Protection of New Varieties of Plants (UPOV) Convention, 1991. The aim of encouraging the development of new varieties of plants for the benefit of society.

Order of Characteristics

or

(b) Chronological order;

followed by

(c) Characteristic order

- attitude
- height
- length
- width
- size
- shape
- color

other details (such as surface, etc., and individual parts of the organ such as base, apex and margin).

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

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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**.

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Qualitative Characteristics

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)).

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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 assessment.

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Quantitative Characteristics

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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Revisión de la presente Directiva
 1.11.11 First variety protection,
 1.12.12 the aim of encouraging
 the development of new
 varieties of plants,
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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.

UPOV 1991/2005/2015

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Pseudo-Qualitative Characteristics

36. (*)	VG	Fruit: ground color of skin
PQ	(e)	not visible
		whitish yellow
		yellow
		whitish green
		yellow green
		green

UPOV 1991/2005/2015

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 1.11.11 First variety protection,
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Pseudo-Qualitative Characteristics

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.

UPOV 1991/2005/2015

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7. Table of Characteristics

UPOV 1991/2005/2015

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Qualitative Characteristics

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

UPOV 1991/2005/2015

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Qualitative Characteristics

	English	français	deutsch	español	Example Varieties/ Examples/ 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	

UPOV 1991/2005/2015

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Harmonized UPOV principles
 UPOV Convention system
 UPOV variety protection,
 UPOV the aim of encouraging
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 varieties of plants,
 for the benefit of society."

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

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Harmonized UPOV principles
 UPOV Convention system
 UPOV variety protection,
 UPOV the aim of encouraging
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 varieties of plants,
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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	-

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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

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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>)

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Pseudo-qualitative Characteristics

Qualitative characteristic

Color: green (1), yellow (2), red (3)

Pseudo-qualitative characteristic:

Color: green (1), yellow green (2), green yellow (3), yellow (4), orange (5), red (6)

Shape: round (1), broad elliptic (2), elliptic (3), elliptic to ovate (4), ovate (5)
Not: Shape: round (1), intermediate (2), elliptic (3), intermediate (4), ovate (5)

Color: light green (1), medium green (2), dark green (3), purple green (4)
Not: Color: light green (1), green (2), dark green (3), purple green (4)

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Pseudo-qualitative Characteristics

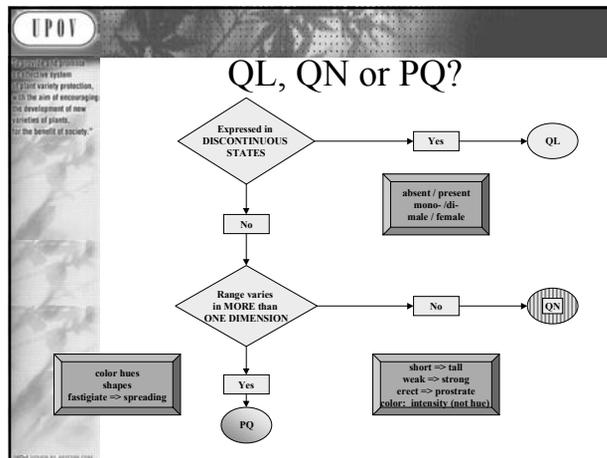
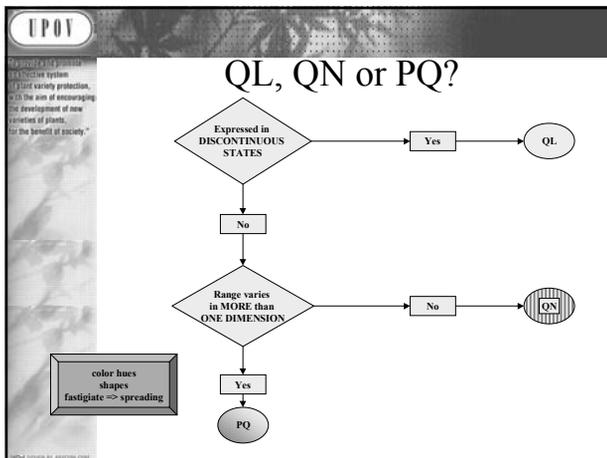
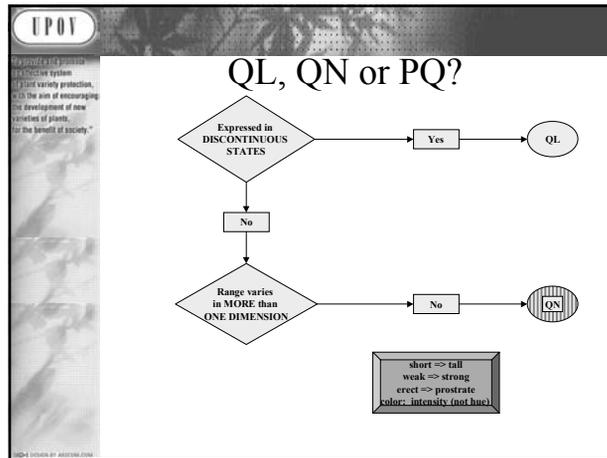
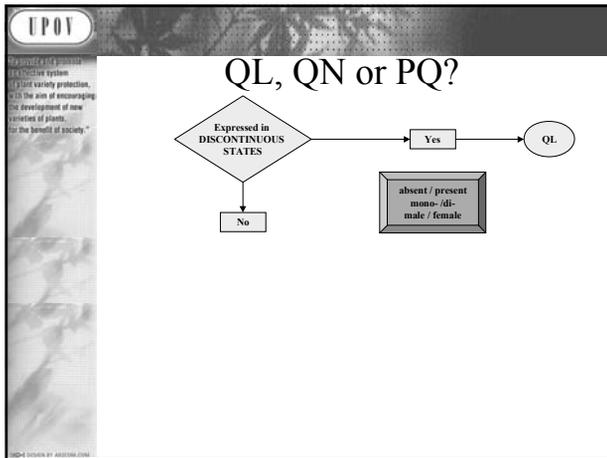
Shape: broad elliptic (1), medium elliptic (2), narrow elliptic (3), ovate (4)
Not: Shape: broad elliptic (1), elliptic (2), narrow elliptic (3), ovate (4)

Color of spots: only green (1); green and purple (2); only purple (3)

Type of mottling: only diffuse (1);
diffuse and in patches (2);
diffuse, in patches and linear bands (3);
diffuse and in linear bands (4).

Width: narrow (3), medium (5), broad (7)
Not: Shape: narrow ovate (1), ovate (2), broad ovate (3)

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UPOV
 My purpose is to promote the UPOV system.
 I seek variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.*

EXERCISE

UPOV
 My purpose is to promote the UPOV system.
 I seek variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.*

Types of Expression

QL: Qualitative

QN: Quantitative

PQ: Pseudo-qualitative

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

UPOV	
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1. Leaf sheath: anthocyanin coloration	
absent or very weak	1
weak	3
medium	5
strong	7
very strong	9
<hr/>	

UPOV	
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1. Leaf blade: folding	
closed	1
open	2
<hr/>	

UPOV	
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1. Plant: rhizomes	
absent	1
present	9
<hr/>	

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1. Plant: growth habit	
erect	1
semi erect	3
medium	5
semi prostrate	7
prostrate	9
<hr/>	

UPOV	
<small> Reproduction of this document in electronic system for plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.* </small>	
1. Leaf: length	
very short	1
short	3
medium	5
long	7
very long	9
<hr/>	

UPOV		
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1.	Lemma: hairiness	
	absent	1
	present	9

UPOV		
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1.	Tree: distribution of flower buds	
	predominantly on spurs	1
	equally on spurs and on one-year-old shoots	2
	predominantly on one-year-old shoots	3

UPOV		
<small> Reproduction of this document for diagnostic purposes is permitted under the UPOV Convention system. It is the aim of encouraging the development of new varieties of plants for the benefit of society. </small>		
1.	Leaf blade: ratio length/width	
	very small	1
	small	3
	medium	5
	large	7
	very large	9

UPOV		
<small> Reproduction of this document for diagnostic purposes is permitted under the UPOV Convention system. It is the aim of encouraging the development of new varieties of plants for the benefit of society. </small>		
1.	Leaf blade: intensity of green color of upper side	
	light	3
	medium	5
	dark	7

UPOV		
<small> Reproduction of this document for diagnostic purposes is permitted under the UPOV Convention system. It is the aim of encouraging the development of new varieties of plants for the benefit of society. </small>		
1.	Leaf blade: shape of base	
	acute	1
	obtuse	2
	truncate	3
	cordate	4

UPOV		
<small> Reproduction of this document for diagnostic purposes is permitted under the UPOV Convention system. It is the aim of encouraging the development of new varieties of plants for the benefit of society. </small>		
1.	Leaf blade: profile in cross section	
	straight or weakly concave	1
	moderately concave	2
	strongly concave	3

UPOV
 Purpose of the present International System
 (1) First variety protection,
 (2) the aim of encouraging the development of new varieties of plants,
 for the benefit of society."

1. Flower: position of stigma relative to anthers

below	1
same level	2
above	3

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 (1) First variety protection,
 (2) the aim of encouraging the development of new varieties of plants,
 for the benefit of society."

1. Petal: shape (excluding claw)

broad elliptic	1
circular	2
oblate	3

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 for the benefit of society."

1. Petal: color on lower side

white	1
light pink	2
dark pink	3

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 for the benefit of society."

EXAMPLE VARIETIES

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 for the benefit of society."

TG/139
 Letace/Laine/Sala/Lechuga, 2004-03-31
 -7-

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

	English	Français	Deutsch	español	Example Varieties Ejemplos Beispielvarietäten Ejemplos de variedades	Note/ Nota
1. Seed color (*)	Seed: color	Semence: couleur	Samen: Farbe	Semilla: color		
	white	blanche	weiß	blanco	Varpia	1
	yellow	jaune	gelb	amarillo	Danango	2
	black	noire	schwarz	negro	Kajmner Sommer	3
2. Seedling anthocyanin coloration (*)	Plantlet: pigmentation anthocyanique	Kieupflanze: Anthocyanfärbung	Plántula: pigmentación antocianina			
	absent	absente	fehlt/nd	ausente	Varpia	1
	present	présente	vorhanden	presente	Pirat	9
3. Seedling size of cotyledon (fully developed)	Plantlet: taille des cotyledons (à complet développement)	Kieupflanze: Größe des Keimblatts (voll entwickelte)	Plántula: tamaño del cotiledón (plétamente desarrollado)			
	small	petit	klein	pequeño	Romance	3
	medium	moyen	mittel	medio	Expresse	5
	large	grand	groß	grande	Varpia	7

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 Purpose of the present International System
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 (2) the aim of encouraging the development of new varieties of plants,
 for the benefit of society."

TG/2943
 Perilla/Perilla/Perilla/Perilla, 2004-05-31
 -10-

	English	Russein	deutsch	español	Example Varieties Ejemplos Beispielvarietäten Ejemplos de variedades	Note/ Nota
14. VV. Leaf blade intensity	Leaf: intensity of purple color of blade side	Laube: intensité de la couleur pourpre de la face inférieure	Blattgröße: Intensität der Purpurfarbe der Blattoberseite	Laube: intensidad del color púrpura del envés		
QN (8)	very light	très clair	sehr hell	muy claro		1
	light	clair	hell	claro	Perlime	3
	medium	moyenne	mittel	medio		5
	dark	foncé	dunkel	oscuro	Pero	7
	very dark	très foncé	sehr dunkel	muy oscuro	Blva, Purple	9
15. VV. Leaf blade profile	Leaf: profile	Blattgröße: Profil	Blattgröße: Profil	Laube: perfil		
QN (8)	concave	concave	konkav	cóncavo	Pero	3
	plane	plan	flach	plano	Perilla, Saucygold	7
	convex	convexe	konvex	convexo		9

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Harmonized descriptions of plant varieties for the purpose of variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

Table 7. Table of Characteristics (Tableau des caractéristiques) / Tabelle der Eigenschaften

English	French	German	Spanish	Example Varieties (Exemples / Beispielen / Ejemplos)	Note
1. Plant growth type (Type de croissance)					
Q1 (a) Bush clusters	en grappe à la base	buschbüschel	en racimos basales		1
	buschiforme	buschig	arborescente		2
3. Other varieties with leafy growth habit (Autres variétés à croissance feuillée)					
Q1 (b) upright	dressée	aufrichtig	erecta		1
Q1 (c) semi-upright	demi-dressée	halbaufrichtig	semierecta		3
Q1 (d) horizontal	horizontale	wasserecht	horizontal		3
4. Other varieties with bushy growth habit (Autres variétés à croissance buissonnante)					
Q1 (a) low	pas arborescentes	blau	bajo		3
Q1 (b) medium	arborescentes modérées	mittel	medio		3
Q1 (c) tall	arborescentes	groß	alto		3
4. Plant height including flowers (Plante hauteur, incluant les fleurs)					
Q1 (a) short	bas	niedrig	corta	Mini-Glow	3
Q1 (b) medium	modérée	mittel	media	Brandyball	3
Q1 (c) tall	élevée	hoch	larga	Happy Face Pink	3

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Harmonized descriptions of plant varieties for the purpose of variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

Example Varieties: the Objective

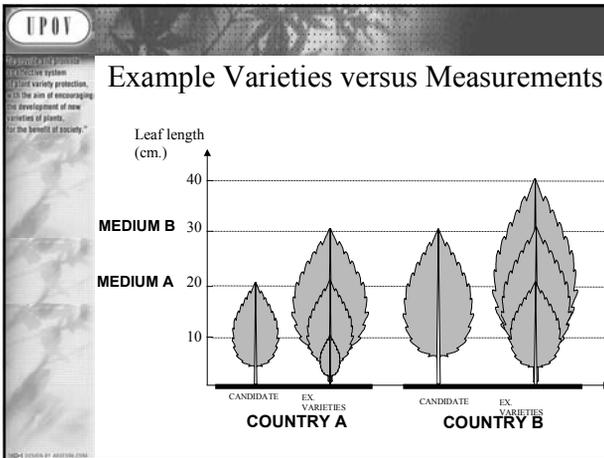
Clarify states of expression

Illustrate characteristics

Determine the state of expression

↓

Harmonized descriptions



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Harmonized descriptions of plant varieties for the purpose of variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

Example Varieties –the need

illustration available (e.g. photo) and

NO NEED

characteristics NOT used to harmonize descriptions or

characteristics NOT influenced by the environment

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Harmonized descriptions of plant varieties for the purpose of variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

Example Varieties – the need

NEED

in characteristics USED TO HARMONIZE descriptions

and WHICH ARE influenced by the environment

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Example Varieties - availability

widely and freely available

National Authority

DUS examiners

Breeders

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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

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Example Varieties Fluctuation

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

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Example Varieties number

All desired characteristics covered with the MINIMUM number of example varieties

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Example Varieties - agreement

Proposed by the leading expert of the TG

Accepted if no objections are presented

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Example Varieties - multiple sets

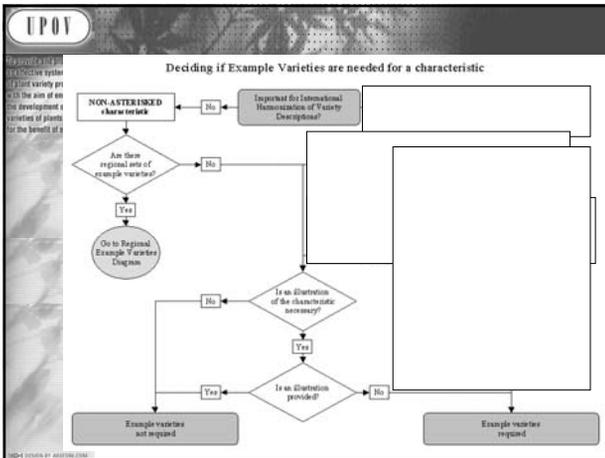
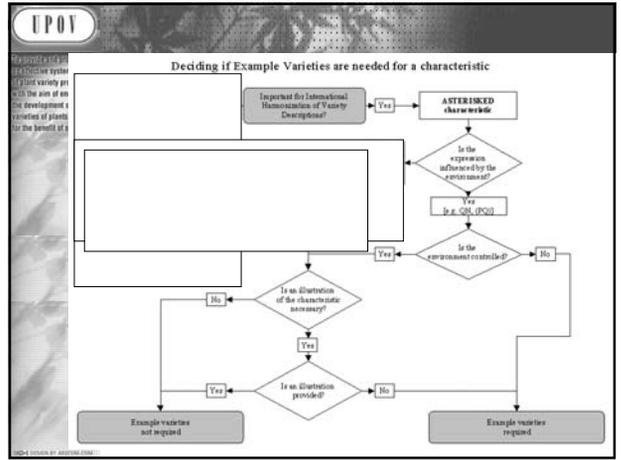
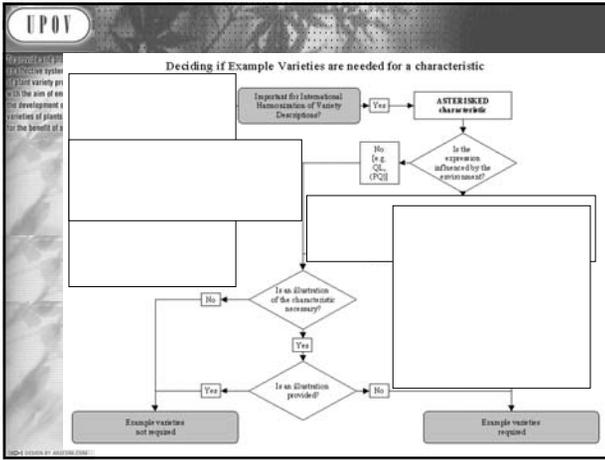
Regional Sets
Different types

clear criteria for creating the sets !

UPOV

TGP/7: Guidance Notes

QIN 28 (TG Template: Chapter 6.4) – Example varieties.....	64
1. Purpose of example varieties.....	64
1.1 Illustration of a characteristic.....	64
1.2 International Harmonization of Variety Descriptions.....	64
2. Criteria for Example Varieties.....	66
2.1 Availability.....	66
2.2 Fluctuation of expression.....	66
2.3 Illustration of the range of expression within the variety collection.....	67
2.4 Minimizing the number.....	67
2.5 Agreement of interested experts.....	67
3. Deciding where example varieties are needed for a characteristic.....	68
4. Multiple sets of example varieties.....	71
4.1 Introduction.....	71
4.2 Regional sets of example varieties.....	71
4.2.1 Basis for regional sets of example varieties.....	71
4.2.2 Procedure for developing regional sets.....	71
4.2.3 Presentation.....	71
4.3 Different types of variety.....	72
QIN 29 (TG Template: Chapter 8: Example varieties: names).....	73
1. Presentation of variety names.....	73
2. Synonyms.....	73



Exercise

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
4. (*) (*)	Plant: height including flowers	Plante: hauteur, fleurs comprises	Pflanze: Höhe einschließlich Blüten	Planta: altura, incluidas las flores	?	3
QN	(a) short	basse	niedrig	corta		5
	medium	moyenne	mittel	media		7
	tall	élevée	hoch	larga		

	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	?	1
QL	(a) basal clusters	en amas à la base	basale Büschel	en racimos basales		2
	bushy	buissonnant	buschig	arboresivo		

UPOV					
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English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
2. (*)	Only varieties with bushy growth type: Plant: predominant attitude of stems	Variétés à type de croissance buissonnant part le plus fréquent	Nur Sorten mit buschigem Wuchsart: Pflanze: vorwiegend aufsteigende Triebe	Sólo variedades con tipo de crecimiento arbustivo: Planta: porte predominante de los tallos	?
QN (a)	upright	dressées	aufrecht	erecto	1
	semi upright	demi-dressées	halbaufrecht	semierecto	3
	horizontal	horizontales	waagrecht	horizontal	5

UPOV					
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English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
5. (*) (*)	Plant: width including flowers	Plante: largeur, fleurs comprises	Pflanze: Breite einschließlich Blüten	Planta: anchura, incluidas las flores	?
QN (a)	narrow	étroite	schmal	estrecha	3
	medium	moyenne	mittel	media	5
	broad	large	breit	ancha	7

UPOV					
Propósito de la presente Directiva First variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.					
English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
9. (*) (*)	Leaf: margin	Feuille: bords	Blatt: Ränder	Hoja: borde del limbo	?
QL (a)	entire	entiers	ganzerändig	entero	1
	divided	découpés	eingeschnitten	dividido	2

UPOV					
Propósito de la presente Directiva First variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.					
English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
7. (*) (*)	Leaf: length	Feuille: longueur	Blatt: Länge	Hoja: longitud	?
QN (a)	short	courte	kurz	corta	3
	medium	moyenne	mittel	media	5
	long	longue	lang	larga	7
	very long	très longue	sehr lang	muy larga	9

UPOV					
Propósito de la presente Directiva First variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.					
English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
20. (*)	Flower: bud color	Fleur: couleur du bouton	Blüte: Farbe der Knospe	Flor: color del botón floral	?
PQ (c)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indique el número de referencia)	

UPOV					
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English	français	deutsch	español	Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo	Note/ Nota
10. (*) (*)	Only varieties with entire leaf margins: Leaf: shape	Variétés à bords des feuilles entiers uniquement: Feuille: forme	Nur Sorten mit ganzerändigen Blättern: Blatt: Form	Sólo variedades con borde de limbo entero: Hoja: forma	?
PQ (a)	ovate	ovale	eiförmig	oval	1
	linear	linéaire	linear	lineal	2
	oblong	oblongue	länglich	oblonga	3
	elliptic	elliptique	elliptisch	elíptica	4
	circular	circulaire	kreisförmig	circular	5
	oblanccolate	oblanccolée	verkehrt lanzettlich	oblanccolada	6
	obovate	obovale	verkehrt eiförmig	oboval	7
	spatulate	spatulée	spatelförmig	espatulada	8
	obtriangular	obtriangulaire	verkehrt dreieckig	obtriangular	9

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WHAT IS WRONG?

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1.	Plant: time of flowering	
	early 60 - 70 days	3
	medium 70 - 80 days	5
	late >80 days	7

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1.	Cotyledon: surface	
	smooth	1
	slightly wrinkled	2
	wrinkled	3

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1.	Leaf blade: symmetry between the sides	
	symmetric	1
	intermediate	2
	asymmetric	3

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1.	Fruit bunch: uniformity	
	low	3
	medium	5
	high	7

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1.	Plant: natural height at inflorescence emergence	
	very short	1
	short	2
	medium	3
	tall	4
	very tall	5

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1.	Plant: growth habit (at beginning of flowering)	
	erect	3
	semi-erect	5
	prostrate	7

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1.	Petiole: anthocyanin pigmentation	
	absent	1
	present	2

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1.	Leaf: shape of base	
	acute	1
	obtuse	2
	cordate	3
	asymmetric	4

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1.	Fruit: covering of calyx	
	uncovered	3
	partially covered	5
	covered	7

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1.	Fruit: ratio length/diameter	
	very small	1
	very small to small	2
	small	3
	small to medium	4
	medium	5
	medium to large	6
	large	7
	large to very large	8
	very large	9

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1.	Fruit: grooves	
	absent or very weak	1
	present	9

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1.	Tree: distribution of flower buds	
	predominantly on spurs	1
	predominantly on one-year old shoots	2
	equally on spurs and on one-year old shoots	3

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1.	Leaf blade: folding	
	absent (flat or slightly concave)	1
	concave	2
	asymmetrically folded	3
	twisted	4

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1.	Corolla: length	
QN	short	3
	medium	5
	long	7
2.	Only varieties with long corolla: Corolla: curvature	
QN	curved upwards	3
	straight	5
	curved downwards	7

UPOV Website
<http://www.upov.int>
 (e-mail: upov.mail@upov.int)

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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.

UPOV is a promoter of an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society.

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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KEY ISSUES

NEW PUBLICATION

UPOV Report on the Impact of Plant Variety Protection
(UPOV Publication 353(E))
[Executive Summary](#)

Breeder's exemption
Breeder's exemption in the 1978 and the 1991 Act of the UPOV Convention ([Slide PPT](#))

Notion of Breeder and Common Knowledge
The Notion of Breeder and Common Knowledge ([Slide PPT](#))

Genetic Resources and Benefit-Sharing
Access to Genetic Resources and Benefit-Sharing (Reply of UPOV to the Notification of June 26, 2003, from the Executive Secretary of the Convention on Biological Diversity (CBD)) ([Slide PPT](#))
(Adopted by the Council of UPOV, October 23, 2003)

Access to Genetic Resources and Benefit-Sharing (Reply of UPOV to the Notification of June 26, 2003, from the Executive Secretary of the Convention on Biological Diversity (CBD)) ([Slide PPT](#))
(Adopted by the Council of UPOV, October 23, 2003)

Position of the International Union for the Protection of New Varieties of Plants (UPOV) concerning Decision VI/5 of the Conference of the Parties to the Convention on Biological Diversity (CBD) (April 11, 2003) ([Slide PPT](#))

UPOV and IPGRI to Intensify Cooperation: Meeting on May 13 and

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Council

First restricted area

Second restricted area

Rules Governing the Granting of Observer Status
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LIST OF UPOV PUBLICATIONS*

The following UPOV publications are available on request:

UPOV Conventions

List of Publications

Gazette & Newsletter

Laws & Treaties

List of Varieties Protected

Plant Variety

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 the Rights of Breeders of Plant Varieties

(C) Plants text of 1991 only

(D)

(E)

(F)

(G)

(I) Cooperation in Intellectual Property

(P)

(R) Plant Variety Database

(S)

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NEWS

Executive Summary

UPOV DISTANCE LEARNING COURSE DL-205
"Introduction to the UPOV System of Plant Variety Protection Under the UPOV Convention"

Dates of next session: September/October 2006

For details on the course content, categories of inscription and fees ([PDF](#))

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THANK YOU

