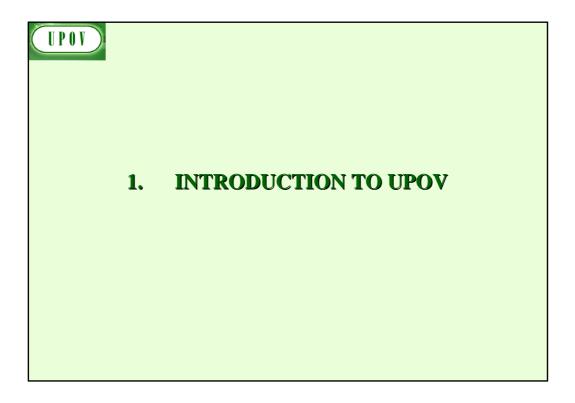
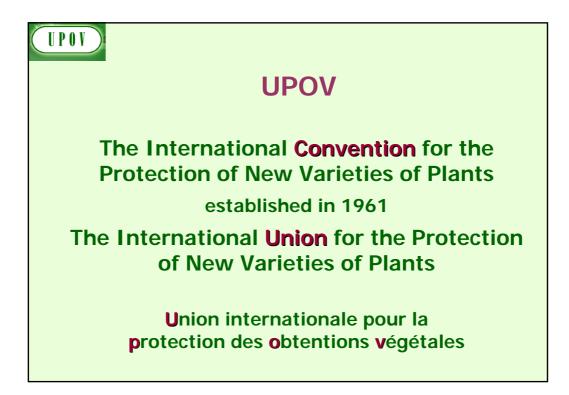
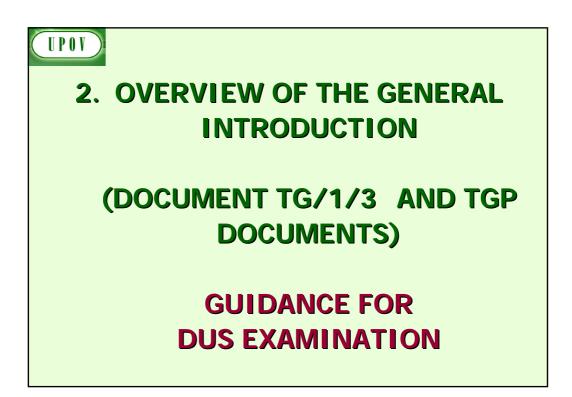


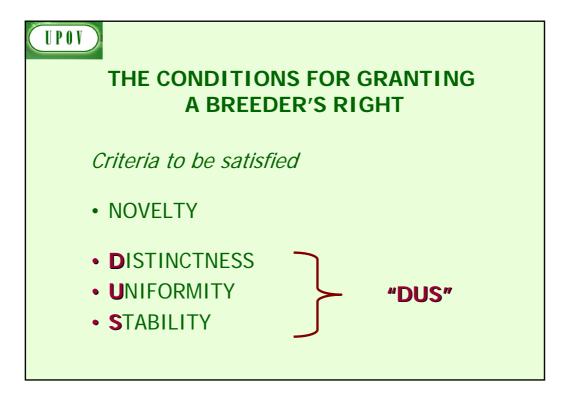
UPOV	PROGRAM
1.	Introduction to UPOV
2.	Overview of the General Introduction (document TG/1/3 and TGP documents)
3.	Guidance on drafting Test Guidelines (document TGP/7)
	 (a) Selection of characteristics (b) Guidance on drafting characteristics (i) Types of expression (QL, QN, PQ), notes and distinctness (ii) Method of observation for distinctness (V/M; G/S) (iii) Asterisked, grouping and TQ characteristics (iv) Example varieties (c) The process for developing UPOV Test Guidelines
4.	UPOV databases
5.	The UPOV website
6.	Role of the Technical Working Parties
7.	Agenda for the TWV Session
8.	Feedback



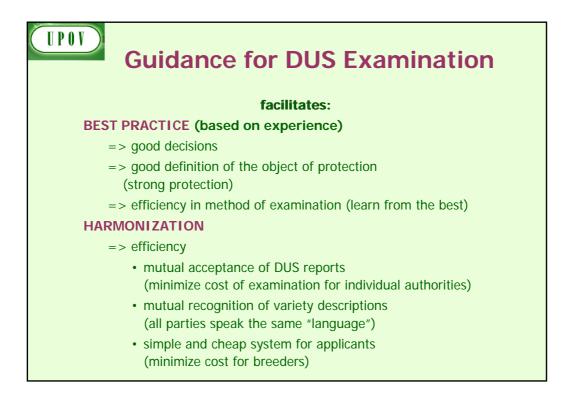


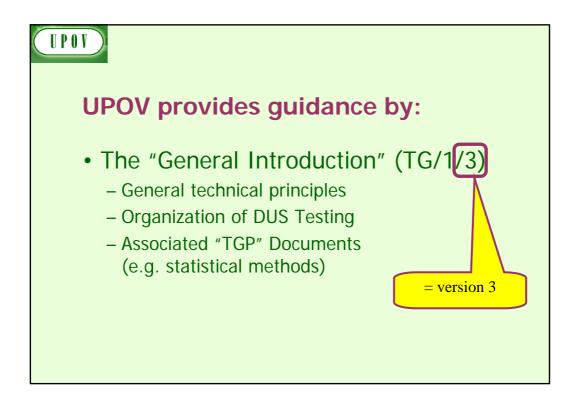




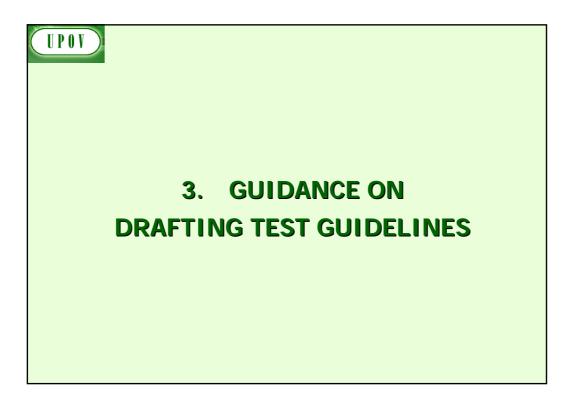


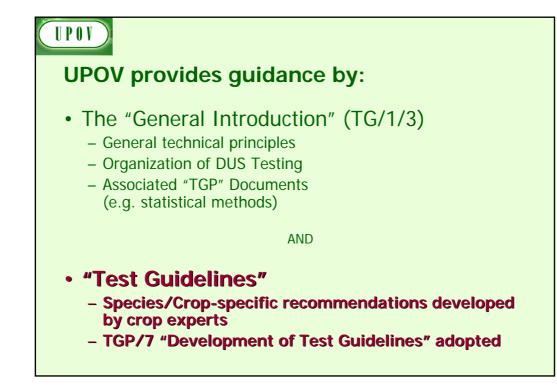




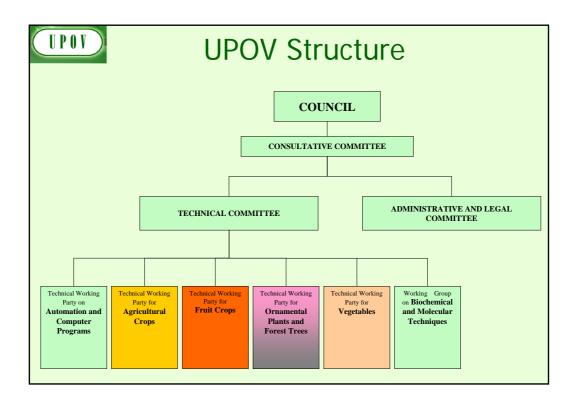


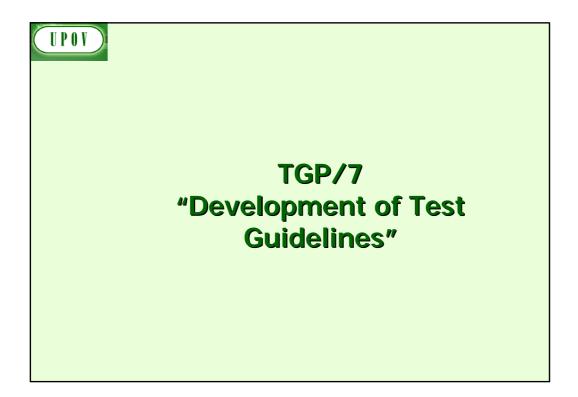
UPOV		TG/1/3 General Introduction	
		"Associated" TGP Documents	
	Ref.	Title	
	TG/00	List of TGP Documents and Latest Issue Dates	
	TGP/1	General Introduction With Explanations	
	TGP/2	List of Test Guidelines Adopted by UPOV	
	TGP/3	Varieties of Common Knowledge	
	TGP/4	Constitution and Maintenance of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

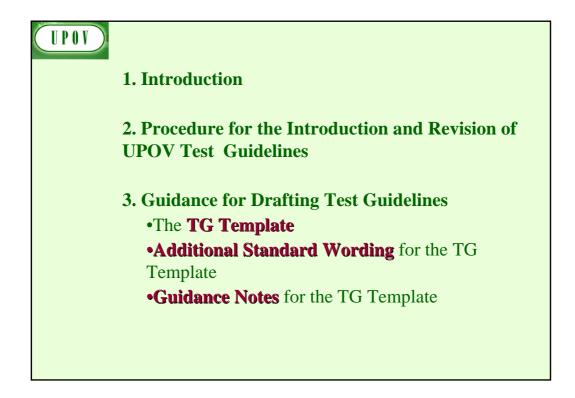


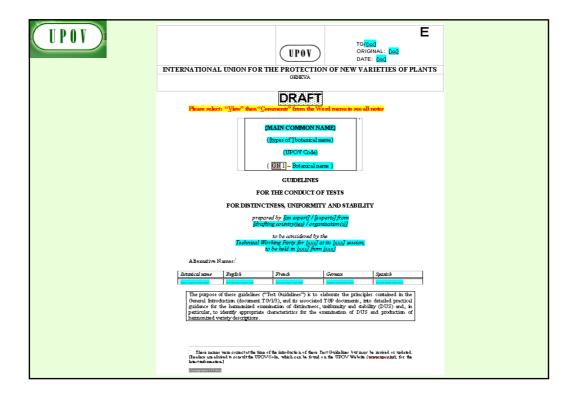


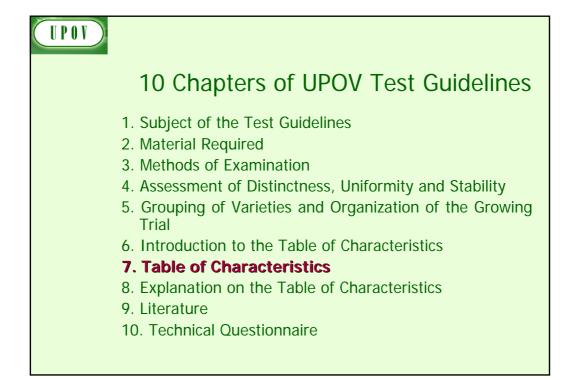
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YAM UPOV Code DIOSC_ALA: DIOSC JAP Distanceren alout 1.; Discorren polystachys Turcz: Discorren japonic Thub. GUIDELINES FOR THE CONDUCT OF TESTS FOR DISTINCTNESS, UNIFORMITY AND STABILITY	
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Otypina inverset, Terre-southy na, Wangel Yan, Name Alexandro Santa Santa Santa Santa Santa Wangel Yan, Yan, Jiana de Chiar Yamwurki Hanan Divorerra polytheche Chiares yan, Jiana de Chiareische Name de agan, Yamma Hanan	
Turez, Classificação II, Class	
The propose of these publicities ("Test Oxidelines") is to delotent the praciples contained in the General Introduction (document 701/3), and in associated TOP documents, into detailed practical publicace for the hemevisited examination of distinctions, undirity and sublicities, to identify appropriate characteristics for the examination of DCNs and publication of hemosized variety descriptions. ASSOCCLATED DOCUMENTS	
ASSOCIATED DOCUMENTS There Tere (additions whend be read in conjunction with the General Introduction and its associated TOP documents. There states were correct if the state of the attocharing of these Tere (Outdottace but may be resuld or updated, the state of th	
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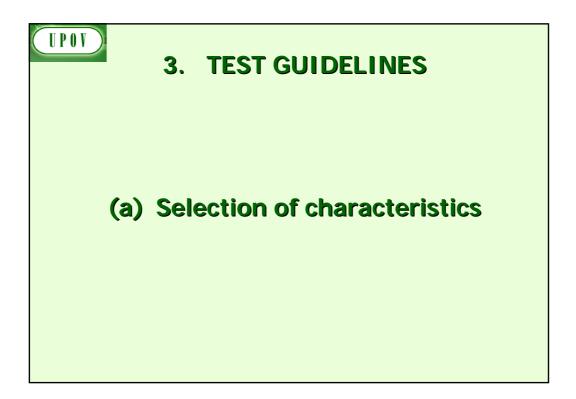


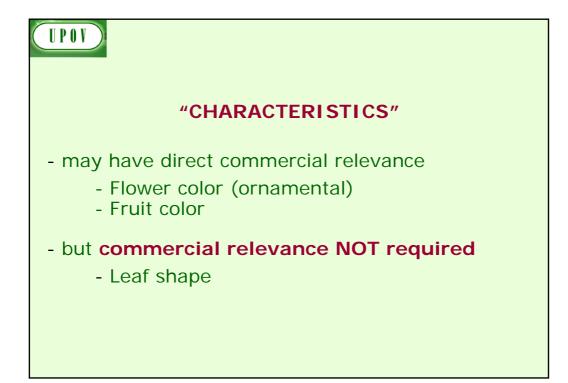


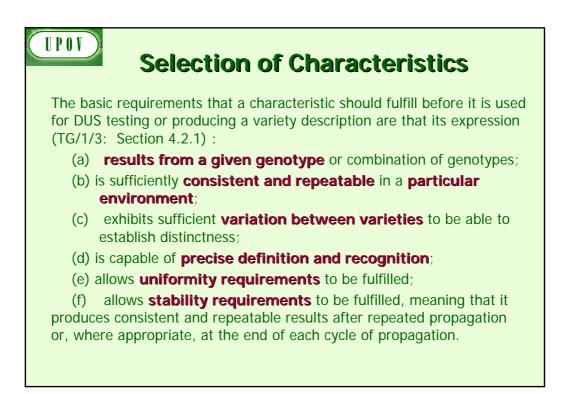


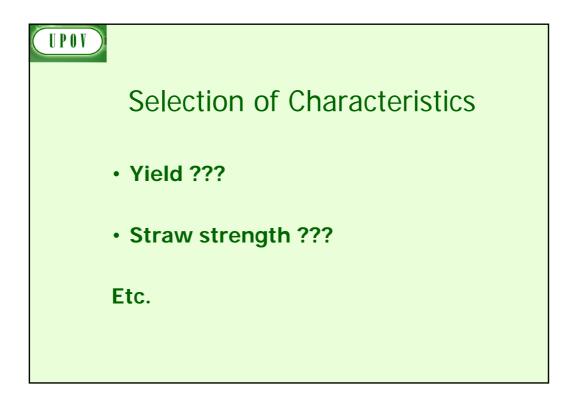








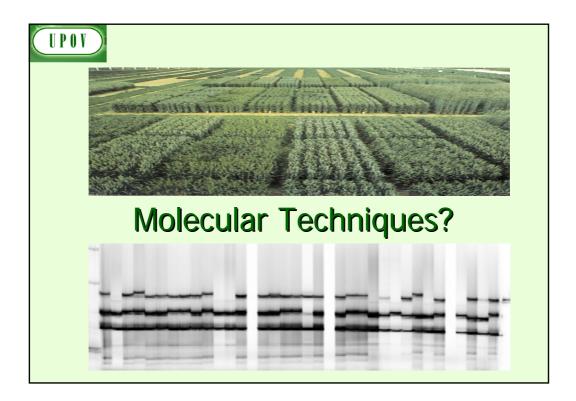


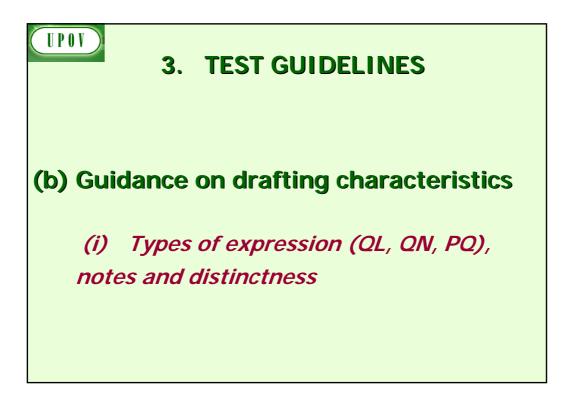


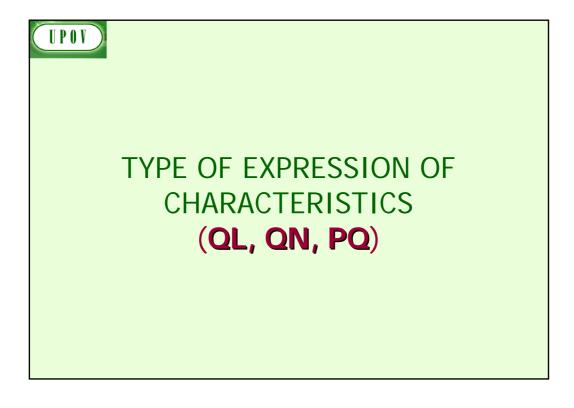
UPOV	Selection of Characte	eristic	S	
	Criteria	Fruit: color	Leaf: Yiel shape	ld
	(a) results from a given genotype or combination of genotypes	Yes	Yes	
	(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	
	(c) exhibits sufficient variation between varieties to be able to 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	

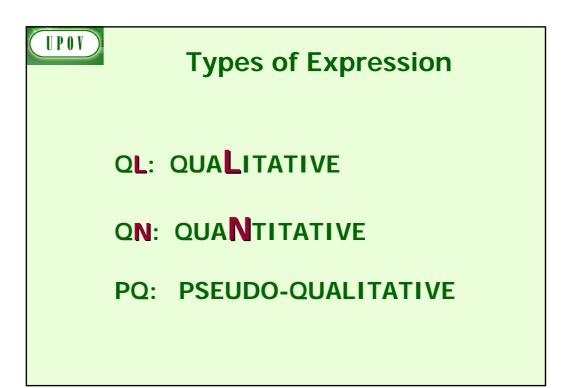
UPOV	Selection of Characte	eristic	S	
	Criteria	Fruit: color	Leaf: shape	Yield
	 (a) results from a given genotype or combination of genotypes 	Yes	Yes	Yes
	(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	(No)
	(c) exhibits sufficient variation between varieties to be able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

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

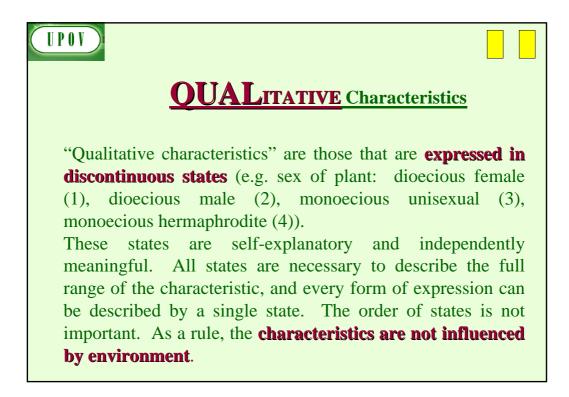


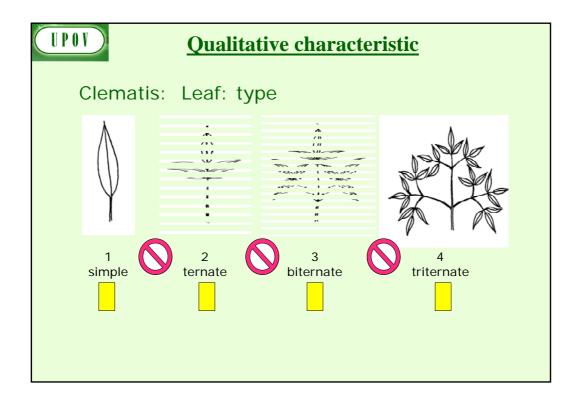


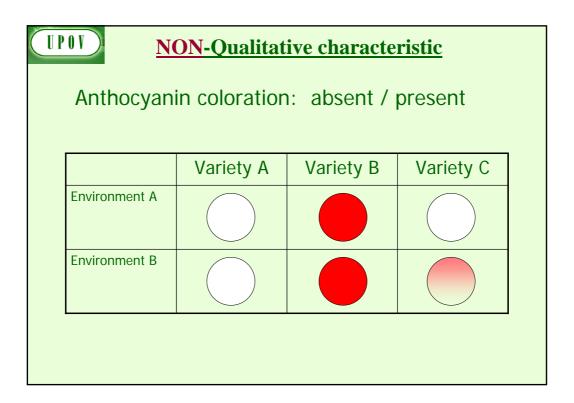




7.	Table of Characte	ristics/Tableau de	es caractères/Merkma	alstabelle/Tabla d	e caracteres	
Char. No.	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note Not
1. (*)	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
(°)						
QN)	upright	dressé	aufrecht	erecto	Inuppink	1
\smile	semi-upright	semi dressé	halbaufrecht	semierecto	D0158-1	2
	spreading	étalé	breitwüchsig	abierto	Sumnem 03	3
	semi-trailing	semi-étalé	halbhängend	semirrastrero	Inupsaf	4
	trailing	coureux	hängend	rastrero	Organza	5
2.	Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
(+)						
QN	short	basse	niedrig	baja	Yateye	3
	medium	moyenne	mittel	media	D0158-1	5
	tall	haute	hoch	alta	Inuppink	7



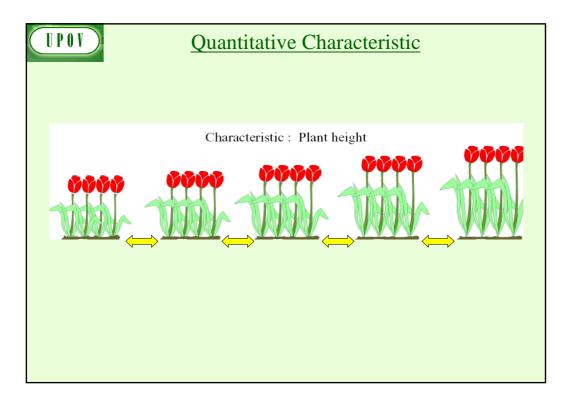






UANTITATIVE Characteristics

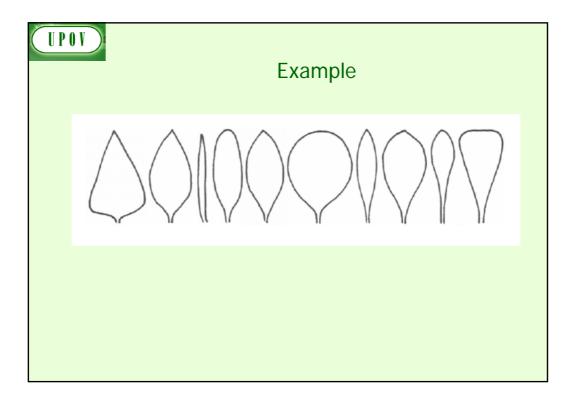
"Quantitative characteristics" are those where the expression covers the full range of variation from one extreme to the other. The **expression can be recorded on a one-dimensional**, **continuous or discrete, linear scale**. The range of expression is divided into a number of states for the purpose 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.

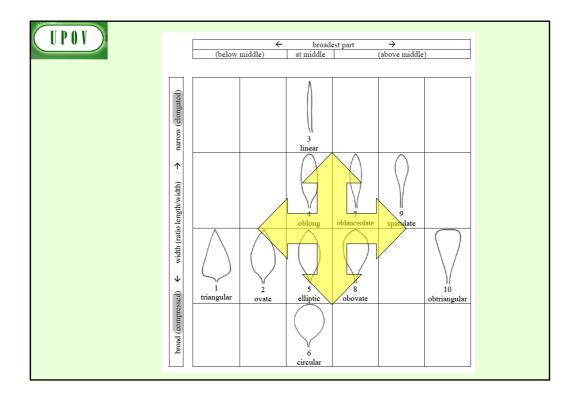


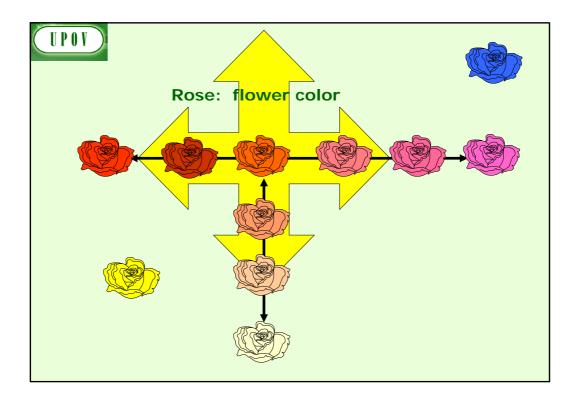
UPOV

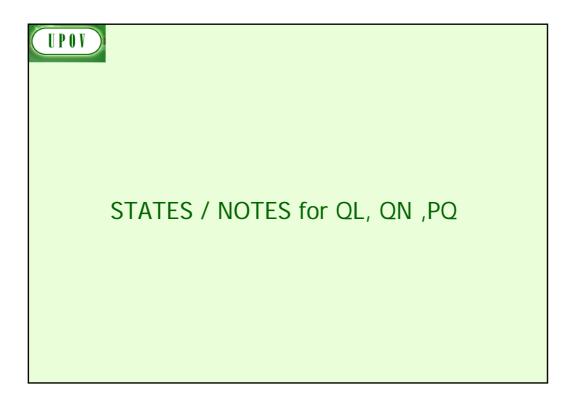
PSEUDO-QUALITATIVE Characteristics

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.









POV			litative Cha (typical exa		ics	
	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	N o te N o ti
19. VG (*) (+)	Inflorescence: type					
QL	Type 1 Type 2 Type 3		and a second	R	P.	1 2 3
		l Type 1	2 Type 2	ту	3 ppe 3	

		Q		<u>Characterist</u> al cases)	ics	
Char No.	Method of مربقه Method of	français	deutsch	español	Example Varieties Exemples/ Beispielssorten/ Variedades ejempl	Note/ Nota
1. (*)	MS Plant: ploidy C	7				
QL	diploid tetraploid					2
3. (*)	VG Stem: anthoc coloration	yanin				
QL	absent				Gumpoong	1
	present				Chunpoong, Gopoong	9

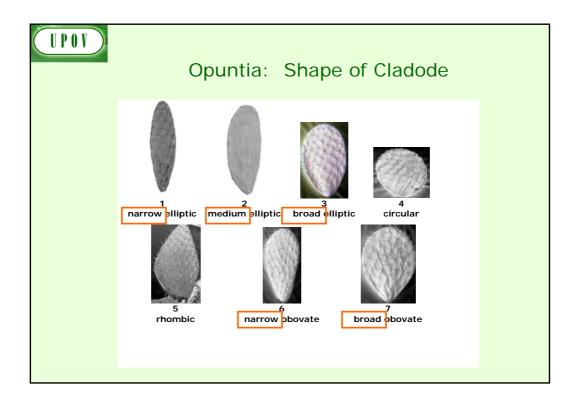
UPOV		Quantitative C weak/s			<u>istics</u>
		short/l	ons	g	
		small/	•	0	
	Note	State		Note	State
	1	very weak (or: absent or very weak)		1	very small (or: absent or very small)
	2	very weak to weak		2	very small to small
	3	weak		3	small
	4	weak to medium		4	small to medium
	5	medium		5	medium
	6	medium 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

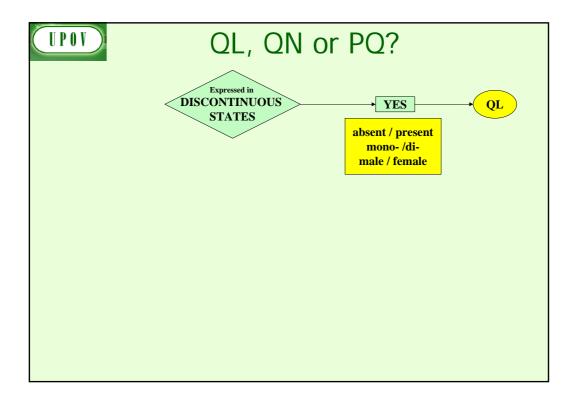
UPOV	Quantitative Ch	aracteristics	
Standard Range	Standard Range	Standard Range	Standard Range
Version 1	Version 2	Version 3	Version 4
1 very weak	1 very weak	-	-
(or: absent or very weak)	(or: absent or very weak)		
3 weak	3 weak	3 weak	3 weak
5 medium	5 medium	5 medium	5 medium
7 strong	7 strong	7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

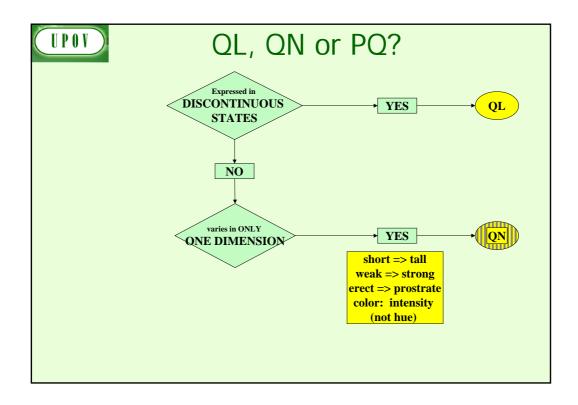
		Quantitati	ve Characteristi	CS
		Quantitati		<u>cs</u>
State	Example 1	Example 2	Example 3	Example 4
	Size relative to:	Angle:	Position:	Length in relation to:
		very acute	at base	equal
1	much smaller			
-	much smaller moderately smaller	moderately acute	one quarter from base	slightly shorter
3			one quarter from base in middle	slightly shorter moderately shorter
1 3 5 7	moderately smaller	moderately acute	<u>^</u>	

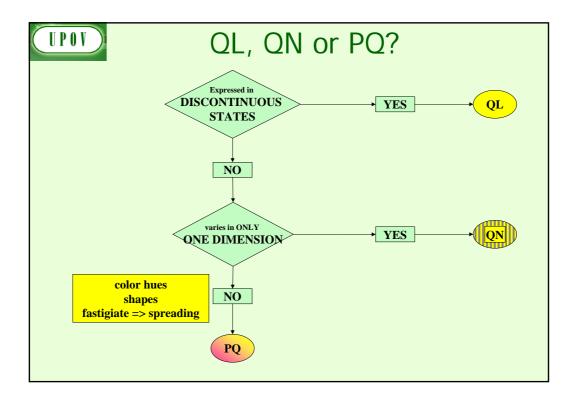
Quantitative Characteristics Limited range					
	State	Example 1 Stem: attitude erect			
3		semi-erect prostrate			
	Co	ondensed range			
Example 1		Example 2			
1 e.g. absent or very weak (absent or very weakly expressed) 2 weak (weakly expressed)		1 e.g. absent or weak (absent or weakly expressed) 2 moderate (or medium) (moderately expressed)			
3 strong (strongly expressed)		3 strong (strongly expressed)			

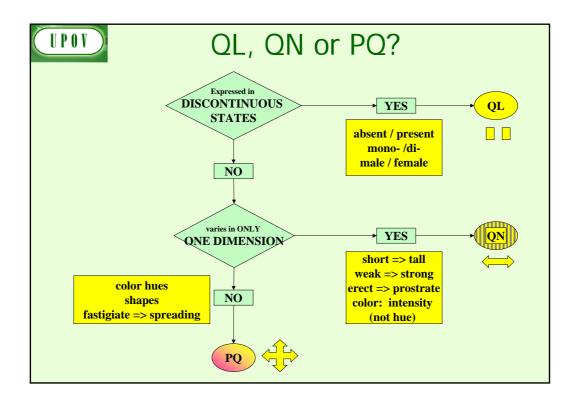
Pseudo-qualitative Characteristics (typical examples)						
24. (+)	Flower: color of the center	Fleur: couleur du centre	Farbe der Mitte	Flor: color del centro		
PQ	green	vert	grün	verde	1	
	yellow	jaune	gelb	amarillo	2	
	orange	orange	orange	naranja	3	
	pink	rose	rosa	rosa	4	
	red	rouge	rot	rojo	5	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

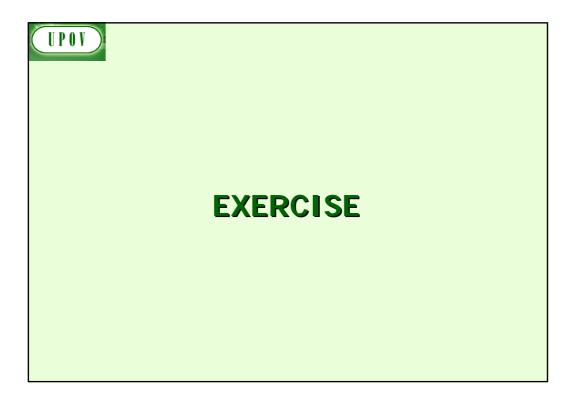


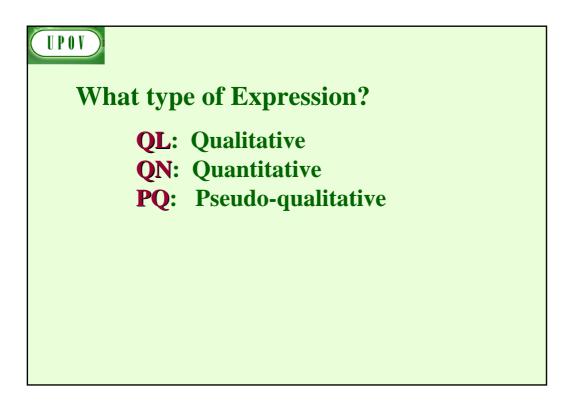




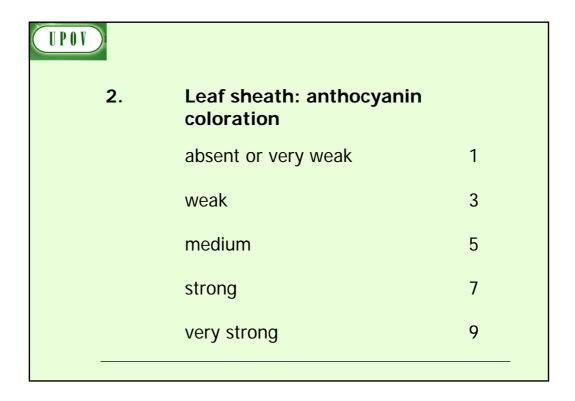


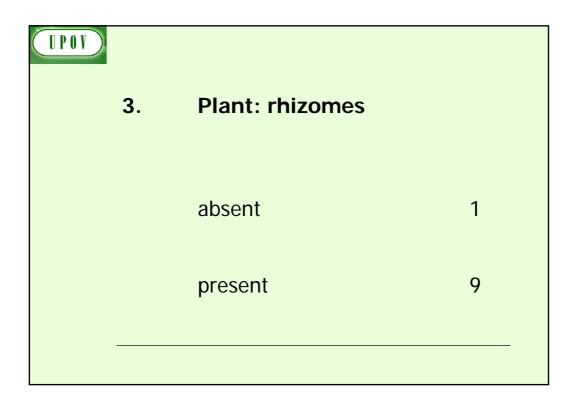




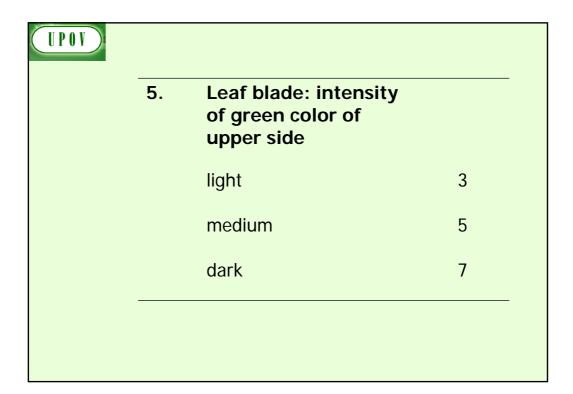


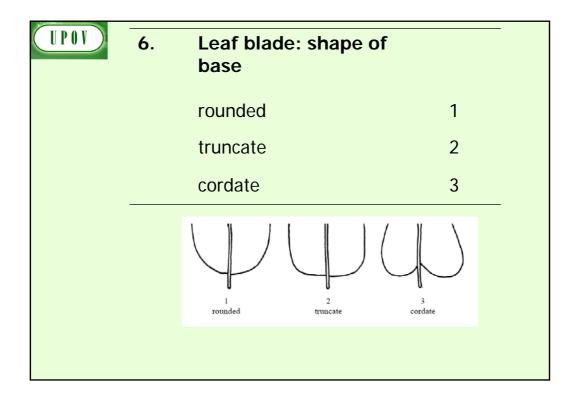
		Note/ Nota
1.	Plant: ploidy	
	diploid	2
	tetraploid	4
	hexaploid	6
	octoploid	8

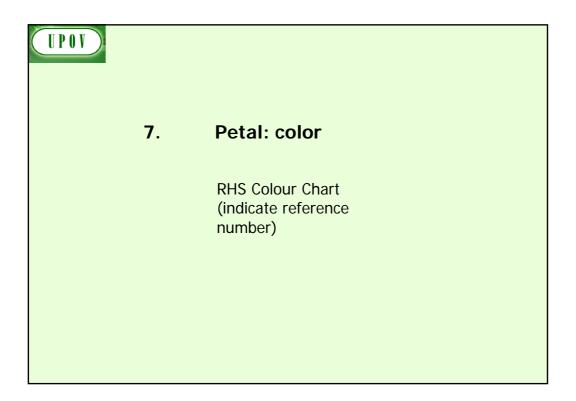




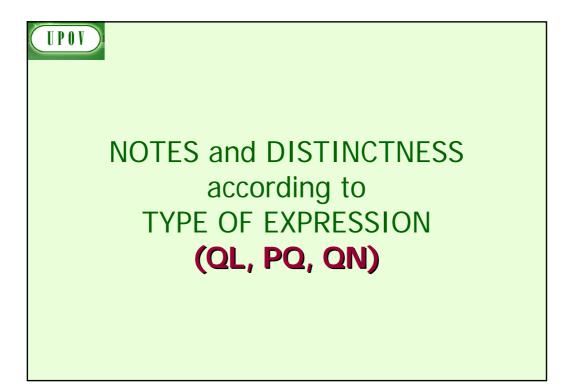
UPOV			
	4.	Petal: color	
		white	1
		yellow	2
		orange	3
		red	4
		pink	5
		purple	6

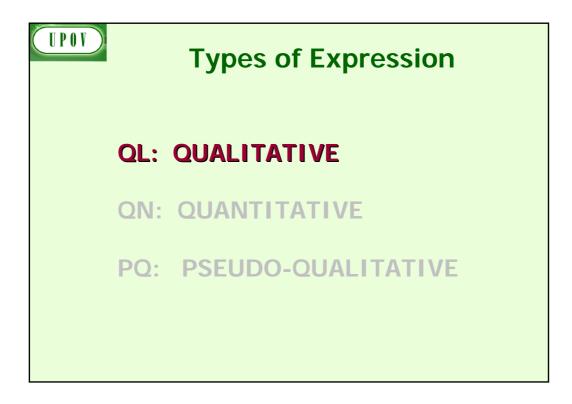


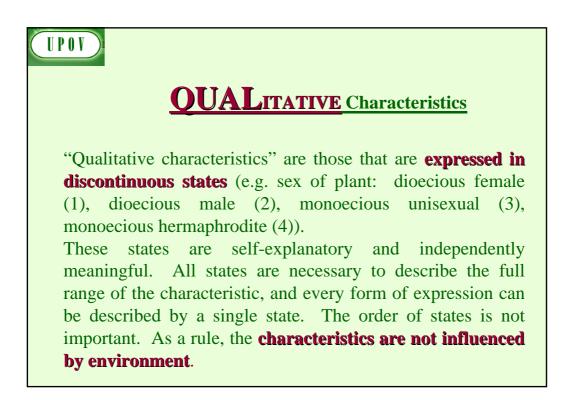


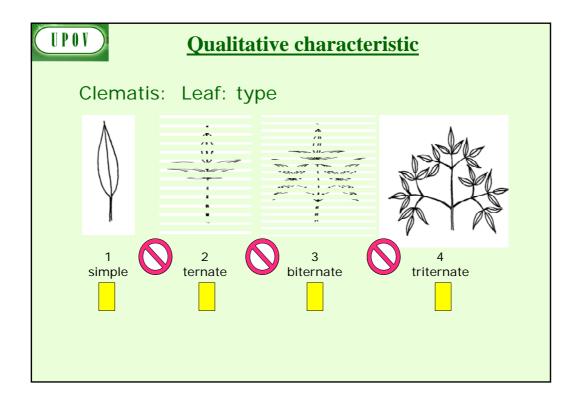


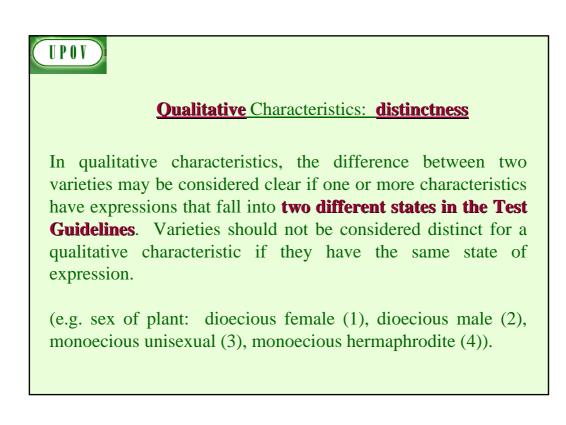
U P O V			
	8.	Leaf blade: profile in cross section	
		straight or weakly concave	1
		moderately concave	2
		strongly concave	3

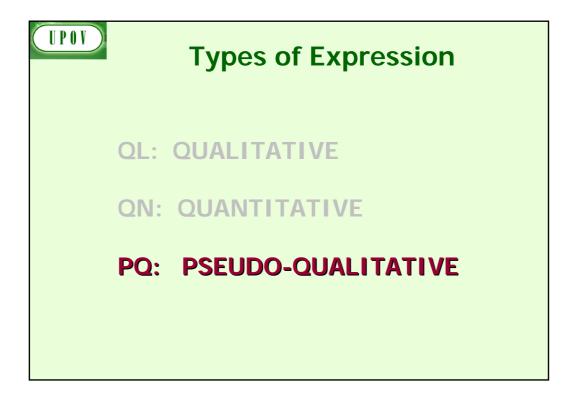








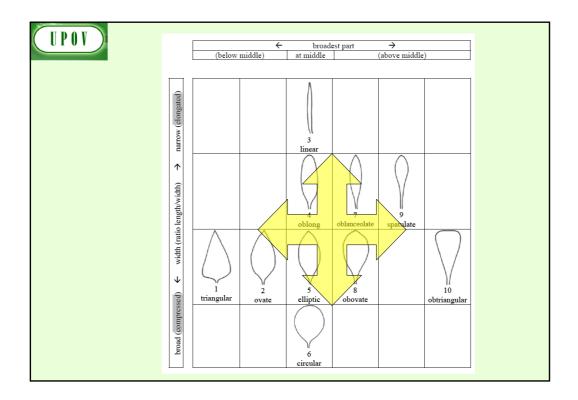


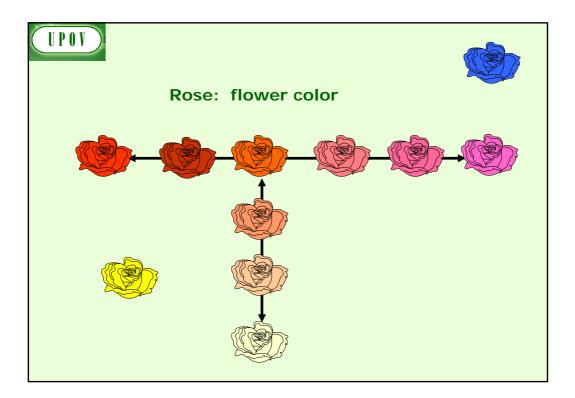


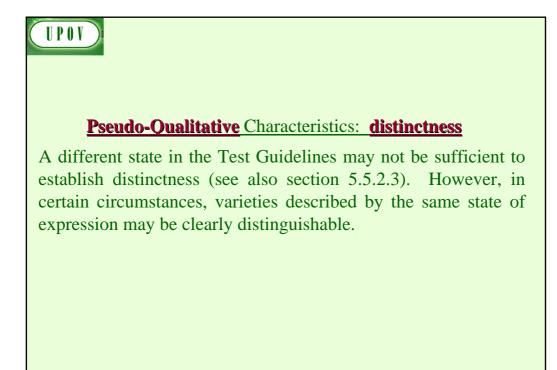
UPOV)

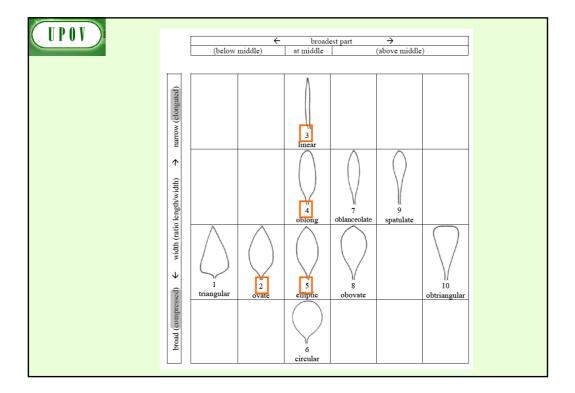
PSEUDO-OUALITATIVE Characteristics

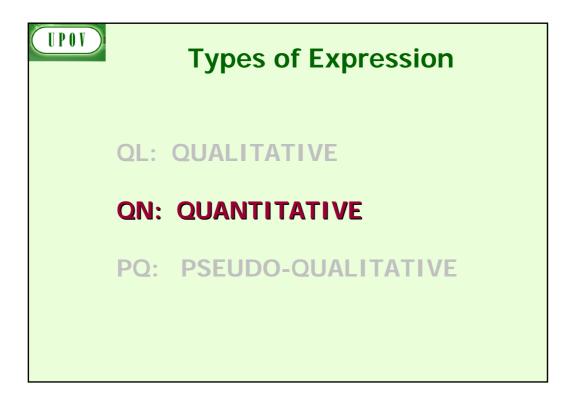
In the case of "pseudo-qualitative characteristics," the **range of expression is at least partly continuous, but varies in more than one dimension** (e.g. shape: ovate (1), elliptic (2), circular (3), obovate (4)) and cannot be adequately described by just defining two ends of a linear range. In a similar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

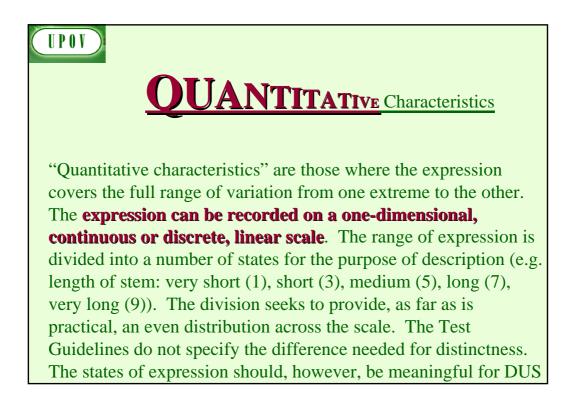


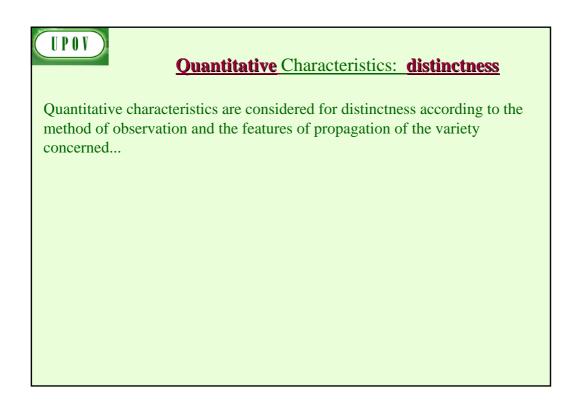


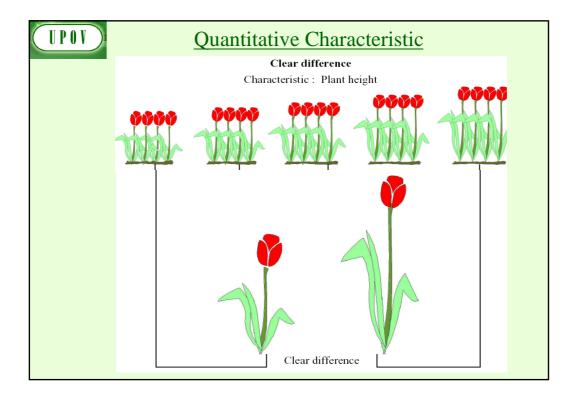


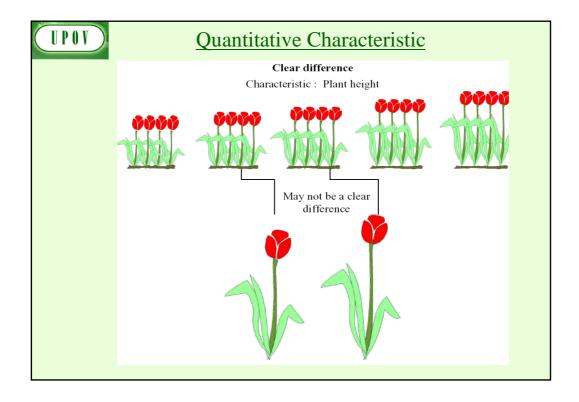


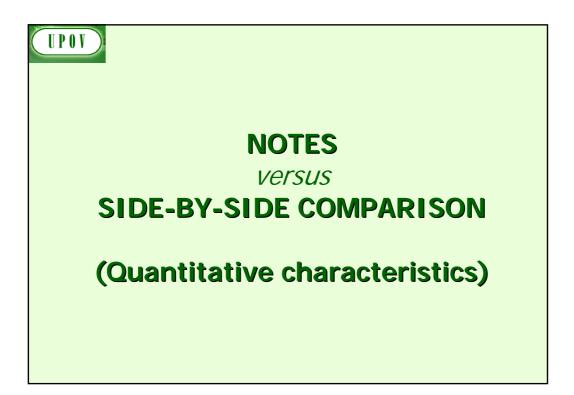


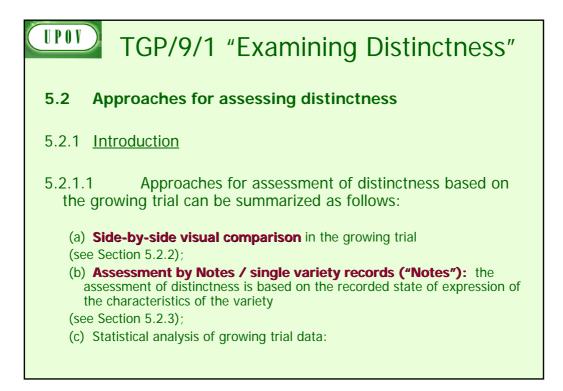


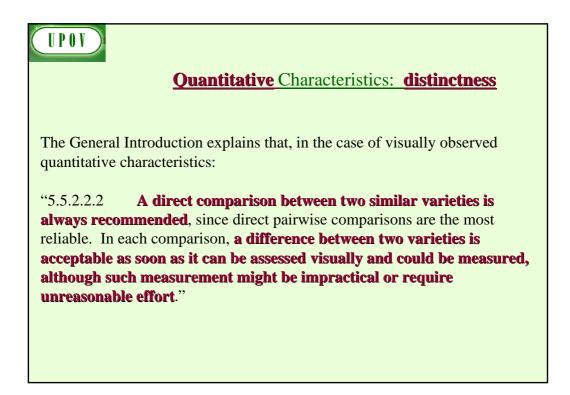


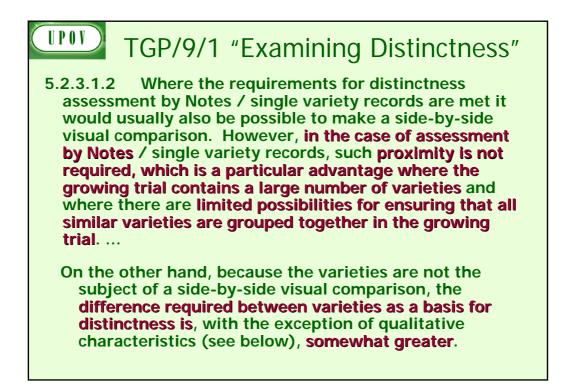


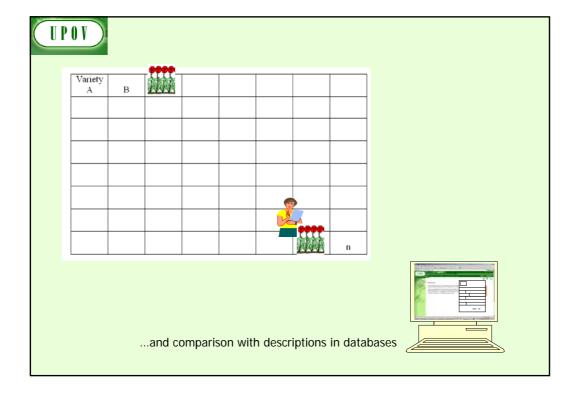


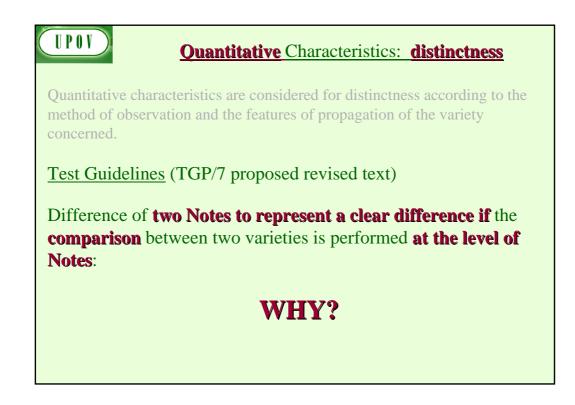


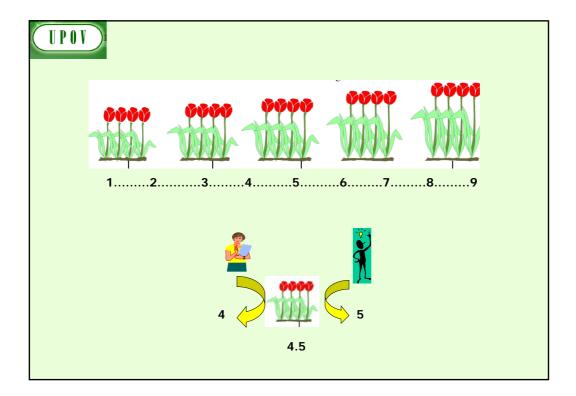


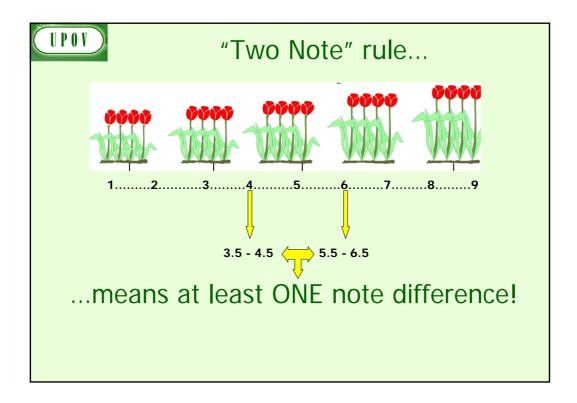












<u>Ouantitative</u> Characteristics: <u>distinctness</u>

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)

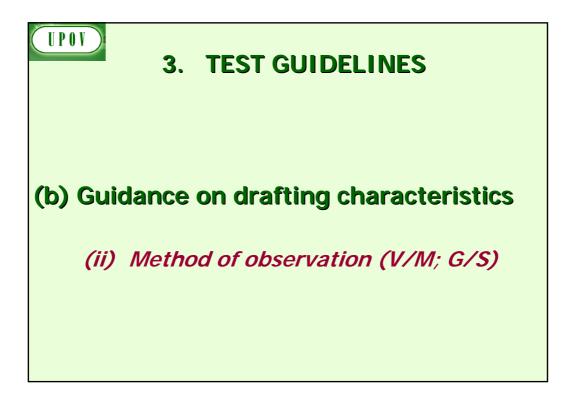
U P O V

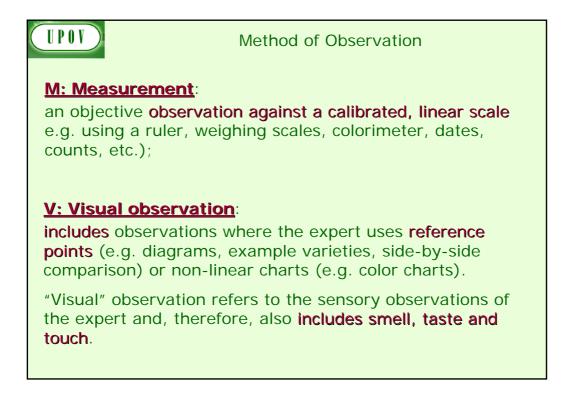
Difference of **two Notes to represent a clear difference if** the **comparison** between two varieties is performed **at the level of Notes**:

			Dia	TG/233/1 scia/Diascie, 2007-03-2 - 9 -	8		
		English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note Not
6. (*)	(a)	Leaf blade: length	Limbe: longueur	Blattspreite: Länge	Limbo: longitud		
QN		short	courte	kurz	corto	Coditer, Strawberry Sundae	3
		medium	moyenne	mittel	medio	Codiusre	5
		long	longue	lang	largo	Balwhislapi, Balwhiswhit	7

TG/233/1 Diascia/Diascie, 2007-03-28 - 9 -							
	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note Nota	
5.	Stem: anthocyanin coloration below inflorescence	Tige: pigmentation anthocyanique sous inflorescence	Trieb: Anthocyanfärbung unter dem Blütenstand	Tallo: pigmentación antociánica por debajo de la inflorescencia			
QN	absent or weak	absente ou faible	fehlend oder gering	ausente o débil	Heccharm	1	
	medium	moyenne	mitte1	media	Hecrace	2	
	strong	forte	stark	fuerte		3	

Particular	Process levels	other	r than Notes
Measurements into Notes for Distinctness and for Variety Descriptions UPOV Documents Beate Rücker First restricted area Beate Rücker Mainistrative and Legal Committee Federal Variety Office, Hannover, Germany Identities Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Seminar on DUS Testing, Seminar on Seminar on Seminar on Seminar on Seminar on DUS Testing, Geneva, March 18-20, 2010 Image: Seminar on DUS Testing, Seminar on DUS Testing, Seminar on	Bedensteat		
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TWO Fednical Working Party for Ornamental Plants and Forest Trees TWV Technical Working Party for Ornamental Plants and Forest Trees TWV Technical Working Gravp Tile Visyedtales BHT Working Gravp on Biochemical and Nelecular Techniques, and DNA-Profile BHT_RG Africo Subscience of Technical and Legal Experts of Biochemical and Nelecular Techniques, and DNA-Profile BHT_RG Africo Subscience of Technical and Nelecular Techniques, and DNA-Profile BHT_RG Africo Subscience of Technical and Nelecular Techniques, and DNA-Profile BHT_RG Africo Vision Gravp on Biochemical and Nelecular Techniques, and DNA-Profile BHT_RG Africo Vision Gravp on Biochemical and Nelecular Techniques, and DNA-Profile BHT_RG Africo Vision Gravpose BHT_RG Africo Vision Gravison Ond Visinto Decomptions <t< td=""><td>Seminar on DUS Testing, Geneva, March 18-20, 2010</td><td></td><td></td></t<>	Seminar on DUS Testing, Geneva, March 18-20, 2010		
TWY Technical Working Party for Vegetables BHT Working Group on Biochemical and Molecular Techniques, and DNA-Profilin BHT Particular BHT Creat Sublemeans Working Group on Biochemical and Dislocalit Techniques, and DNA-Profilin WGLEBB Ad hoc Working Group on Biochemical Part Etredering Parts WGLEWO Ad hoc Working Group on Variety Descriptions WGLEWO Ad hoc Working Group on Variety Demonsitions			
BIT Writing Group on Biochemical and Molecular Techniques, and DNA. Profile BMT_BG Ad hoc Subgroup of Technical and Legal Experts of Biochemical and Molecular Techniques, and DNA. Profile BMT_EG Ad hoc Subgroup of Technical and Legal Experts of Biochemical and Molecular Techniques, and DNA. Profile BMT_Creas-Subgroups Working Group on Biochemical and Molecular Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Biochemical and Molecular Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Biochemical Molecular Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Biochemical and Molecular Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Biochemical and Molecular Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Biochemical and Molecular Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Biochemical Mark Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Mark Techniques, and DNA. Profile WGE_DBMB Ad hoc Working Group on Variety Descriptions WGE_XMD Ad hoc Working Group on Variety Descriptions			
BHT_RG Ad hoc belowage of Technical and Legal Experts of Biochemical and Melecol February (Strenger, Statemark) BHT_Crep_Statemark Working Group on Biochemical and Melecol February WGE_IDBB Ad hoc Working Group on Biochemical February WGE_IDBB Ad hoc Working Group on Sharby the Inspect of Brant Research Flights WGE_IDBD WGE_IDBD Ad hoc Working Group on Variety Descriptions WGE_IDD WGE_IDD Ad hoc Working Group on Variety Descriptions		BHI	Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in
INIT_Crep_Subarcaps Working Group on Biochamical and Nuklockar Techniques, and DNA Profilm WG: IDIM Ad hoc Working Group on Biochamical and Nuklockar Techniques, and DNA Profilm WG: IDIM Ad hoc Working Group on Stady the Inspect of Branch teedersh Flights WG: IDIM Ad hoc Working Group on the Publication of Variate Descriptions WG: IDIM Ad hoc Working Group on Variety Descriptions WG: IDIM Ad hoc Working Group on Variety Descriptions		BHT-RG	Ad hoc Subgroup of Technical and Legal Experts of Biochemical and Molecular
WiG-PVD Ad hoc Working Group on the Publication of Variety Descriptions WiG-PVD Ad hoc Working Group on Variety Denominations		BHT Crop Subaroups	Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in
WS-VD Ad hoc Working Group on Variety Denominations		WG-IPBR	Ad hoc Working Group to Study the Impact of Plant Breeders' Rights
		WG-PVD	Ad hoc Working Group on the Publication of Variety Descriptions
		WG-VD	Ad hoc Working Group on Variety Denominations
Seminar on DUS Testina UPOV, Geneva, March 18 to 20, 2010		Seminar on DOS Testina	UPOV, Geneva, March 18 to 20, 2010

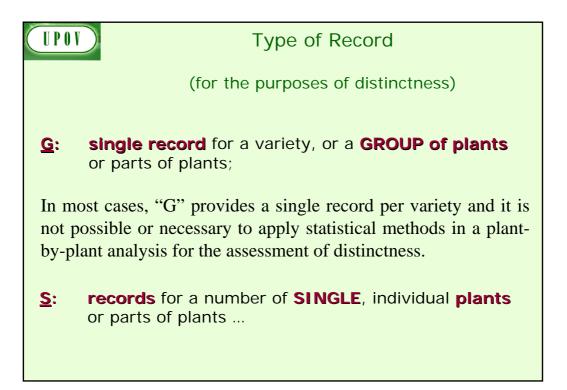


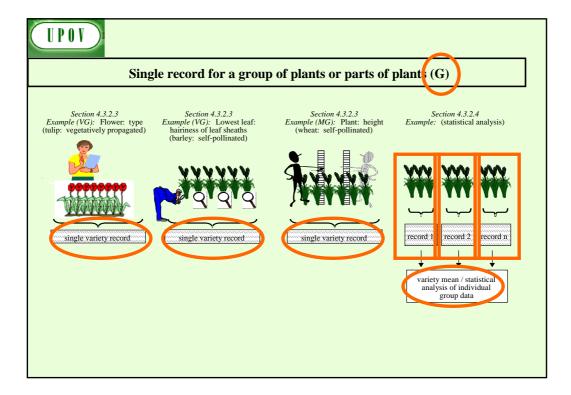


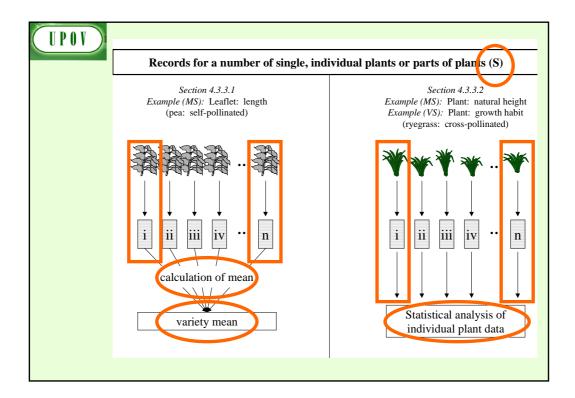
TGP/9/1 "Examining Distinctness"								
	Туре о	f expression of charact	eristic					
Method of propagation of the variety	Q L (QUAL itatative)	PQ (PSEUDO qualitative)	Q N (QUANT itative)					
Vegetatively propagated, self-pollinated	Notes (VG)	Notes (VG) Side-by-side (VG)	Notes (VG/MG/MS) Side-by-side (VG) Statistics (MG/MS)					
Cross-pollinated	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	Statistics ([MG]/MS/VS) Side-by-side (VG) Notes (VG/MG/MS)					
Hybrids	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	**					

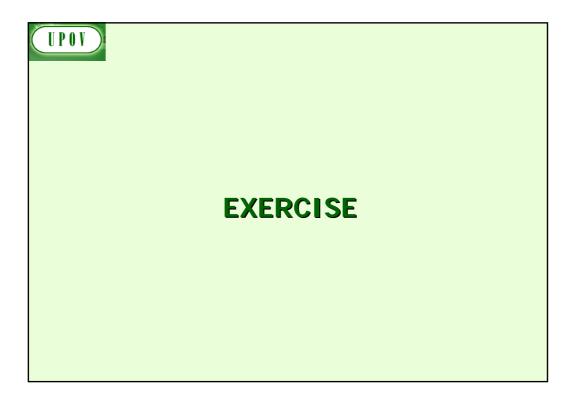
TGP/9/1 "Examining Distinctness"							
	V= Visual o	observation					
	Туре с	f expression of characte	ristic				
Method of propagation of the variety	QL (QUAL itatative)	PQ (PSEUDO qualitative)	QN (QUANT itative)				
Vegetatively propagated, Self-pollinated	Notes (VG)	Notes (VG) Side-by-side (VG)	<i>Notes (VG/MG/MS) Side-by-side (VG) Statistics (MG/MS)</i>				
Cross-pollinated	Notes (V G) Statistics (V S*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	Statistics ([MG]/MS/VS) Side-by-side (VG) Notes (VG/MG/MS)				
Hybrids	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	**				

TGP/9/1 "Examining Distinctness" V= Visual observation or <u>M= Measurement</u>							
	Туре	of expression of cha	a	cteristic			
Method of propagation of the variety	Q L (QUAL itatative)	PQ (PSEUDO qualitative		Q N (QUANT itative)			
Vegetatively propagated, self-pollinated	Notes (VG)	Notes (VG) Side-by-side (VG)		Notes (VG/MG/MS) Side-by-side (VG) Statistics (MG/MS)			
Cross-pollinated	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)		Statistics ([MG]/MS/VS) Side-by-side (VG) Notes (VG/MG/MS)			
Hybrids	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)		**			
Hybrids		Notes (VG) Side-by-side (VG)					



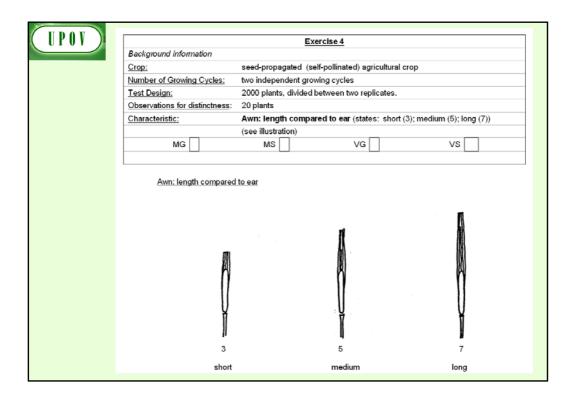


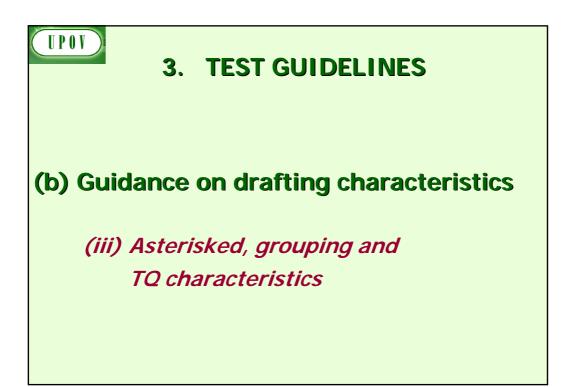




EXERCIS	E ON METHOD OF OBSERVATION FOR DISTINCTNESS
2 – which method(s) MG: single measurem MS: measurement of a VG: visual assessmen	of observation is/are <u>not</u> appropriate (-) and of observation is/are <u>probably most</u> appropriate (+/++) ent of a group of plants or parts of plants a number of individual plants or parts of plants t by a single observation of a group of plants or parts of plants t by observation of individual plants or parts of plants
	Exercise 1
Background information	Exercise 1
Background information	Exercise 1 cross pollinated grass
0	
<u>Crop:</u>	cross pollinated grass
Crop: Number of Growing Cycles:	cross pollinated grass two independent growing cycles 60 spaced plants, divided between 2 replicates plus 8 meters of row plot,
Crop: Number of Growing Cycles: Test Design:	cross pollinated grass two independent growing cycles 60 spaced plants, divided between 2 replicates plus 8 meters of row plot, divided between 2 replicates
Crop: Number of Growing Cycles: Test Design: Observations for distinctness:	cross pollinated grass two independent growing cycles 60 spaced plants, divided between 2 replicates plus 8 meters of row plot, divided between 2 replicates 60 spaced plants

	Exercise 2		
Background information			
Crop:	vegetatively propagated ornamental variety		
Number of Growing Cycles: single growing cycle			
Test Design:	10 plants		
Observations for distinctness:	5 plants		
Characteristic:	Plant: height (states: short (3); medium (5); long (7))		
MG	MS VG VS		
	Exercise 3		
Background information			
Crop:	vegetatively propagated ornamental variety		
Number of Growing Cycles:	single growing cycle		
Test Design:	10 plants		
	5 plants		
Observations for distinctness:	opland		





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.	 Must satisfy the criteria for use of any characteristic for DUS as set out in Chapter 4, section 4.2. Must have been used to develop a variety description by at least one member of the Union. Where there is a long list of such characteristics and, where considered appropriate, there may be an indication of the extent of use of each characteristic. 				

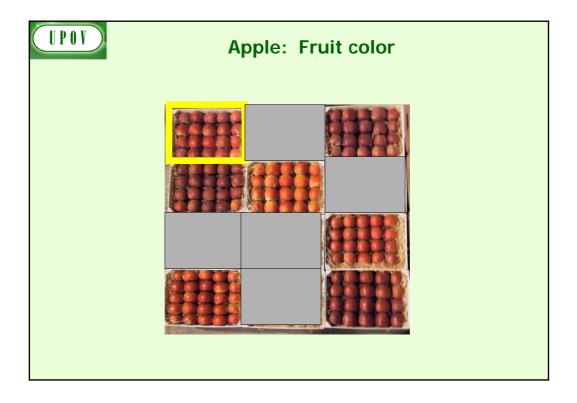
7. 	English	français	des caractères/Merkma	español	Example Varieties Exemples	Note
No.	English	ITAIIÇAIS	Deutsch	espanor	Exemples Beispielssorten Variedades ejemplo	Nota
\bigcirc	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
QN	upright	dressé	aufrecht	erecto	Inuppink	1
	semi-upright	semi dressé	halbaufrecht	semierecto	D0158-1	2
	spreading	étalé	breitwüchsig	abierto	Sumnem 03	3
	semi-trailing	semi-étalé	halbhängend	semirrastrero	Inupsaf	4
	trailing	coureux	hängend	rastrero	Organza	5

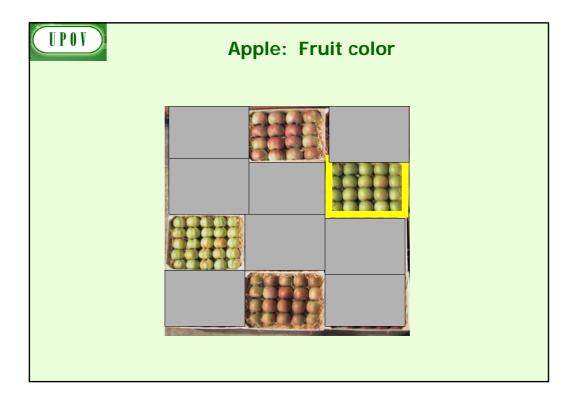
(I	P	A	V	
	U	1	U	'	

Asterisked Characteristic

Function	Criteria
1.Characteristics that are important for the international harmonization of variety	1.Must be a characteristic included in the Test Guidelines.
descriptions.	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.

UPON	Grouping Characteristic	
	 5. <u>Grouping of Varieties and Organization of the Growing Trial</u> 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 	

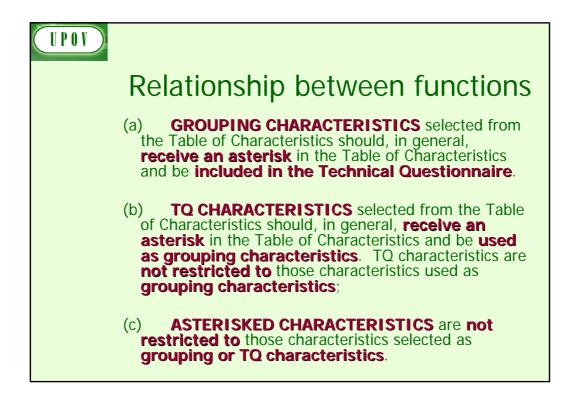


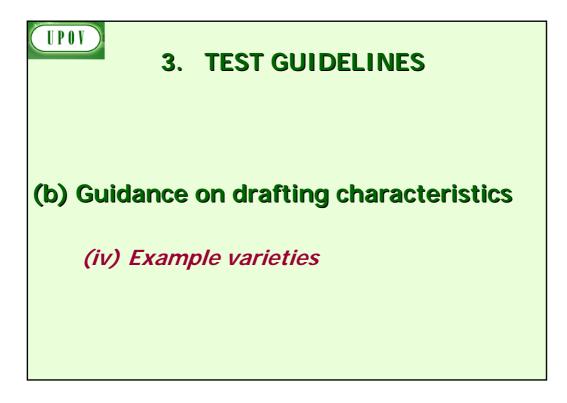


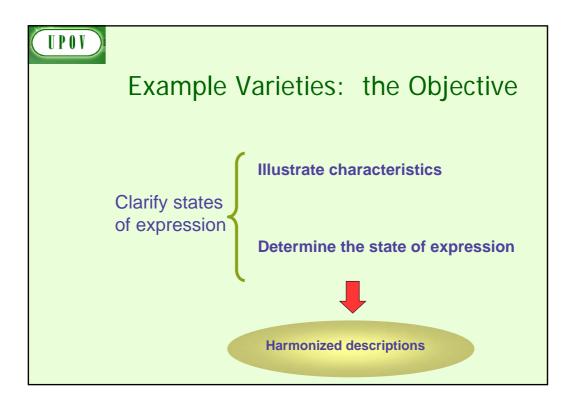
UPOV	10. <u>Technical Questionnaire</u>		
	TECHNICAL QUESTIONNAII	RE Page {x} of {y}	Reference Number:
			Application date: (not to be filled in by the applicant)
		ECHNICAL QUESTION?	NAIRE on for plant breeders' rights
	1. Subject of the Technical	Questionnaire	
	1.1 Botanical name	Malus domestica Borkh.	
	1.2 Common name	Apple	
	2. Applicant		
	Name		
	Address		
	Talaphana Na		
	Telephone No.		

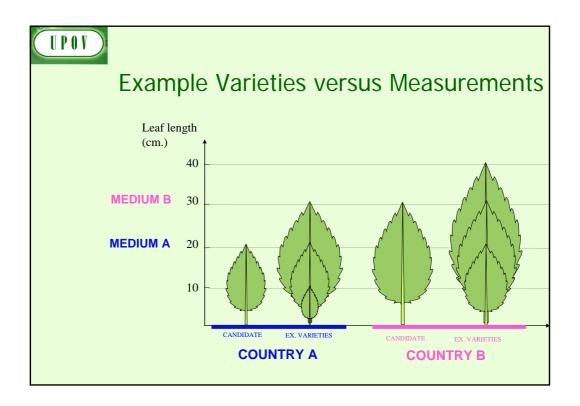
TEC	HNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
5. corre	Characteristics of the variety esponding characteristic in Test		e number in brackets refers t ark the note which best correspo	
	Characteristics		Example Varieties	Note
5.5 (37)	Fruit: hue of over color – with bloon	n removed		
	orange red		Cox's Orange Pippin, Egremont Russet	1[]
	pink red		Cripps Pink, Delorgue	2[]
	red		Akane, Galaxy, Red Elstar, Regal Prince	3[]
	purple red		Red Jonaprince, Spartan	4[]
	brown red		Fiesta, Joburn, Lord Burghley	5[]
5.6 (39)	Fruit: pattern of over color			
	only solid flush		Red Jonaprince, Richared Delicious	1[]
	solid flush with weakly defined stripes		Galaxy	2[]
	solid flush with strongly defined stripe	s	Jonagored	3[]
	weakly defined flush with strongly def	ined stripes	Gravensteiner	4[]
	only stripes (no flush)		Helios	5[]
	flushed and mottled		Elstar	6[]
	flushed, striped and mottled		Jonagold	7[]
	annan an ann an an an an an an an an an		e e marte e a	

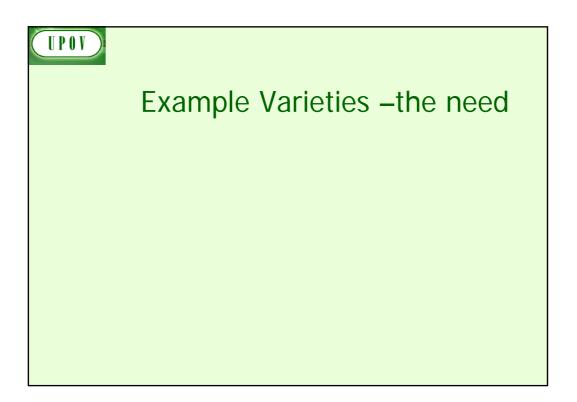
	Function	Criteria
cha	racteristics in which the documented states of expression, even where recorded at different locations, can be used either individually or in combination with other such characteristics:	 1. (a) Qualitative characteristics or (b) Quantitative or pseudo-qualitative characteristics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

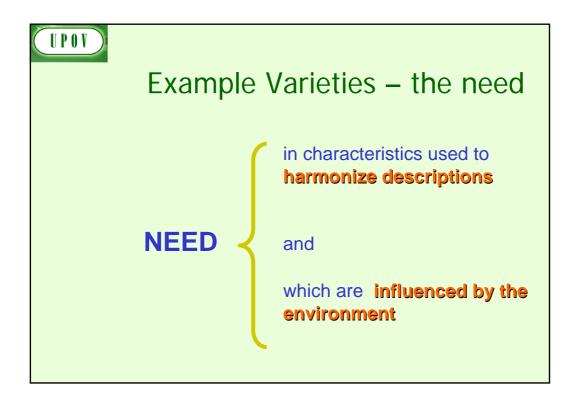


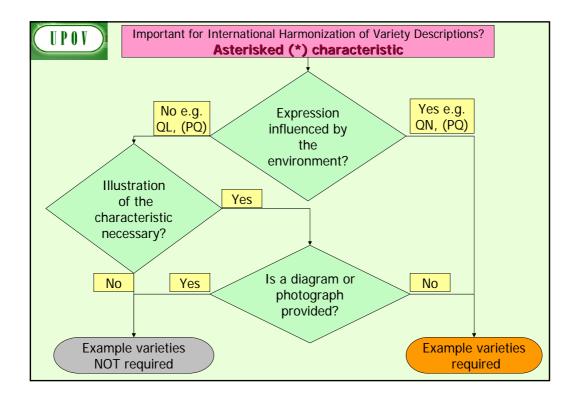


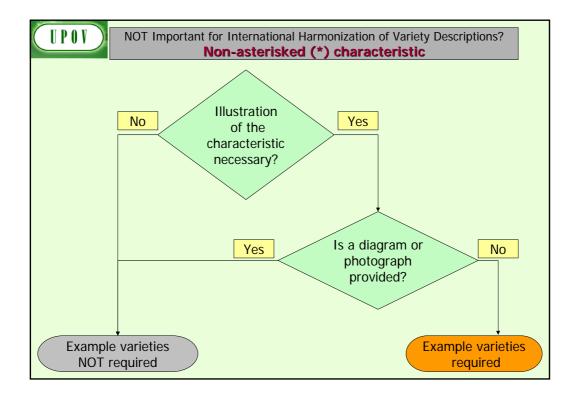








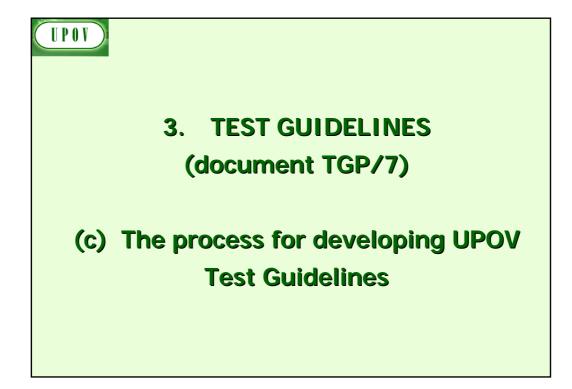


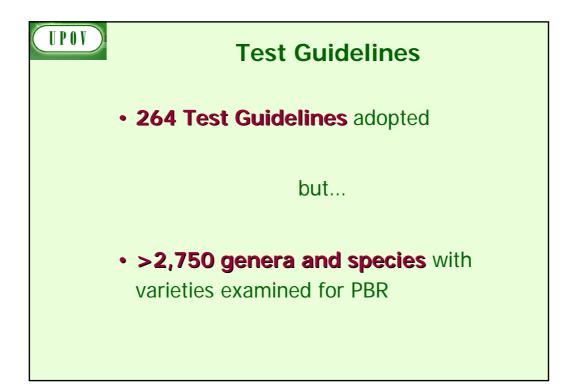


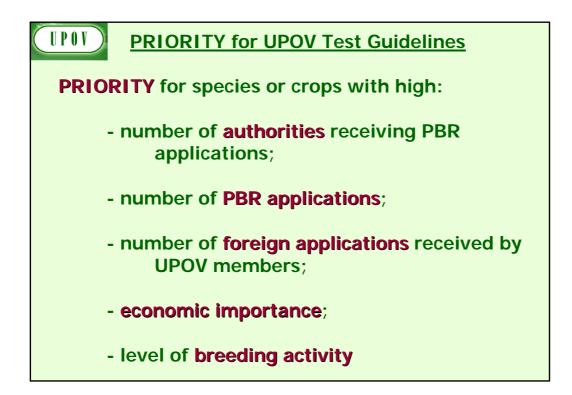
U P O V			Lettuce	TG/13/9 2/Laitue/Salat/Lechuga, - 7 -	2004-03-31		
	7. <u>Ta</u>	ble of Characteris	tics/Tableau des cara	actères/Merkmalsta	belle/Tabla de cara	cteres	
		English	français	Deutsch	españo l	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
	1. (*)	Seed: color	Semence: couleur	Samen: Farbe	Semilla: color		
		white	blanche	weiß	blanco	Verpia	1
		yellow	jaune	gelb	amarillo	Durango	2
		black	noire	schwarz	negro	Kagraner Sommer	3
	2. (*) (+)	Seedling: anthocyanin coloration	Plantule: pigmentation anthocyanique	Keimpflanze: Anthocyanfärbung	Plántula: pigmentación antociánica		
		absent	absente	fehlend	ausente	Verpia	1
		present	présente	vorhanden	presente	Pirat	9
	3.	Seedling: size of cotyledon (fully developed)	Plantule: taille du cotylédon (à complet développement)	Keimpflanze: Größe des Keimblatts (voll entwickelt)	Plántula: tamaño del cotiledón (plenamente desarrollado)		
		small	petit	klein	pequeño	Romance	3
		medium	moyen	mittel	medio	Expresse	5
		large	grand	groß	grande	Verpia	7

			Perilla/Péril	TG/219/1 le/Perilla/Perilla, 2004 - 10 -	-03-31		
		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note Not
14.	VG	Leaf blade: intensity of purplish color of <u>lower</u> side		Blattspreite: Intensität der Purpurfarbe der Unterseite	Limbo: intensidad del color purpúreo del envés		
QN	(a)	very light	très claire	sehr hell	muy claro		1
		light	claire	hell	claro	Perlime	3
		medium	moyenne	mittel	medio		5
		dark	foncée	dunkel	oscuro	Perro	7
		very dark	très foncée	sehr dunkel	muy oscuro	Bora, Purple	9
15.	VG	Leaf blade: profile	Limbe: profil	Blattspreite: Profil	Limbo: perfil		
QN	(a)	concave	concave	konkav	cóncavo	Perro	3
		plane	plan	flach	plano	Pergro, Saeyeupsil	5
		convex	convexe	konvex	convexo		7

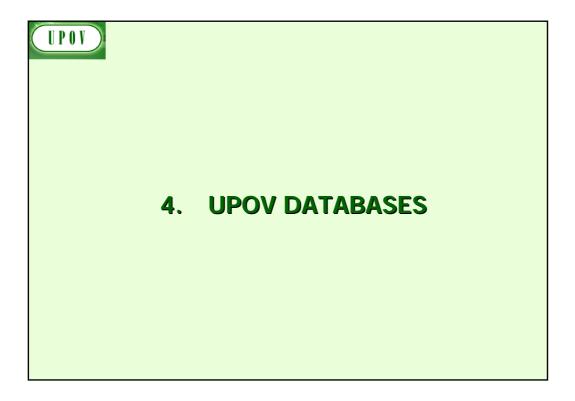
J P O V	Table	of Characteristics/	Brachyscome/Bla Tableau des caracté	TG/223/1 aues Gänseblümchen, 2 - 7 - eres/Merkmalstabel		res		
		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota	
1. (*) (+)		Plant: growth type	Plante: type de croissance	Pflanze: Wuchstyp	Planta: tipo de crecimiento			
QL	(a)	basal clusters	en amas à la base buissonnant	basale Büschel buschig	en racimos basales arbustivo		1	
2. (+)		Only varieties with bushy growth type: Plant: predominant attitude of stems	Variétés à type de croissance buissonnant uniquement: Plante: port le plus fréquent des tiges	Nur Sorten mit buschigem Wuchstyn: Pflanze: vorwiegende	<u>Sólo variedades con</u> <u>tipo de crecimiento</u> <u>arbustivo</u> : Planta: porte predominante de los tallos		-	
QN	(a)	upright	dressées	aufrecht	erecto		1	
		semi upright	demi-dressées	halbaufrecht	semierecto		3	
		horizontal	horizontales	waagerecht	horizontal		5	
3.		Only varieties with bushy growth type: Plant: number of stems	<u>Variétés à type de</u> <u>croissance</u> <u>buissonnant</u> <u>uniquement</u> : Plante: nombre de tiges	<u>Nur Sorten mit</u> <u>buschigem</u> <u>Wuchstyn</u> : Pflanze: Anzahl Triebe	<u>Sólo variedades con</u> <u>tipo de crecimiento</u> <u>arbustivo</u> : Planta: número de tallos			
QN	(a)	few	peu nombreuses	klein	bajo		3	
		medium	moyennement nombreuses	mittel	medio		5	
		many	nombreuses	groß	alto		7	
4. (*) (+)		Plant: height including flowers	Plante: hauteur, fleurs comprises	Pflanze: Höhe einschließlich Blüten	Planta: altura, incluidas las flores			
QN	(a)	short	basse	niedrig	corta	Mardi Gras	3	
		medium	moyenne	mittel	media	Breakoday	5	
		tall	élevée	hoch	larga	Happy Face Pink	7	

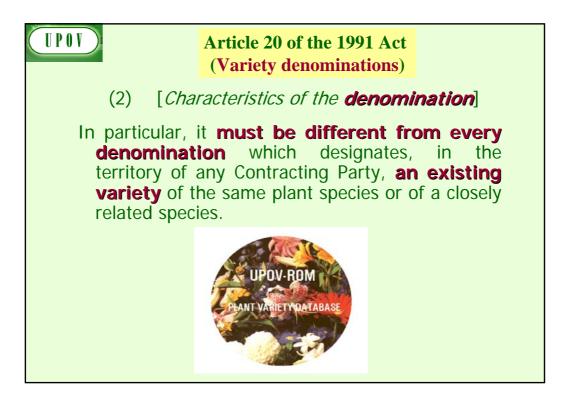


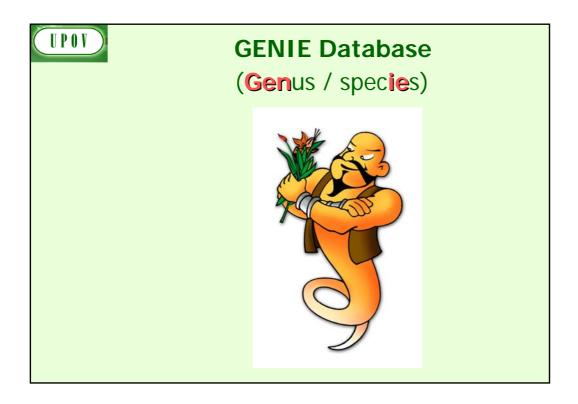


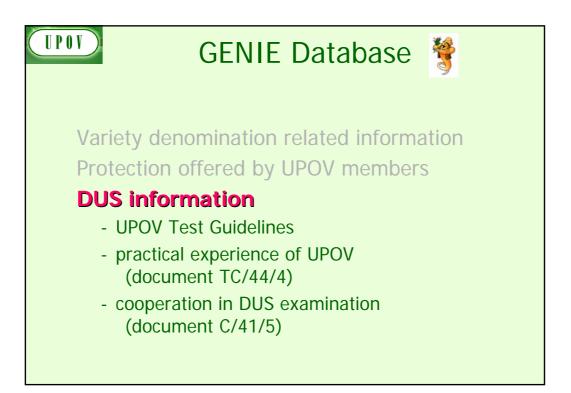


EXAMPLE (New Test Gu	idelines)
Test Guidelines: <i>Plantus magnifica</i> (Common na	
Technical Working Party: TWX	
TWX (2005): TWX (2006): TWX (2007): Enlarged Editorial Committee (2008): Technical Committee (2008): Final adopted document (2008):	Alpha (proj. 1) Alpha (proj. 2) Alpha (proj. 3) Alpha (proj. 4) Alpha (proj. 5) TG/500/1

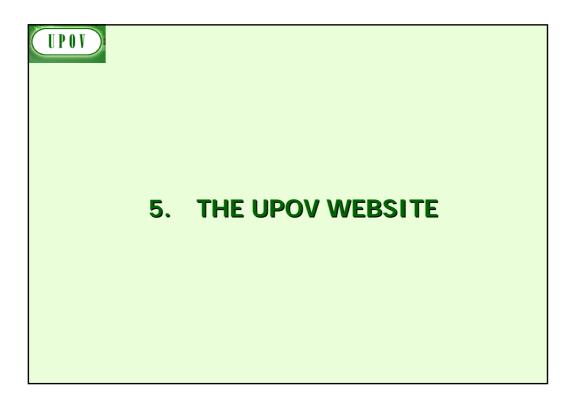






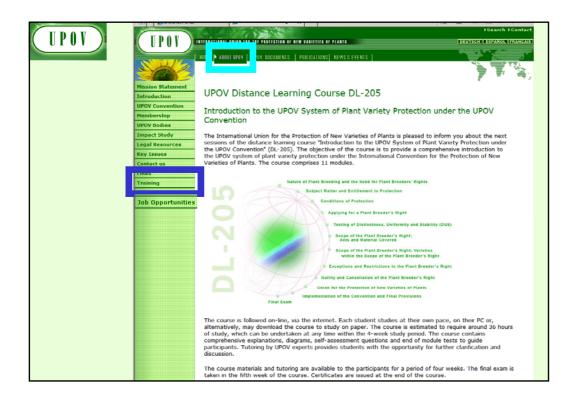


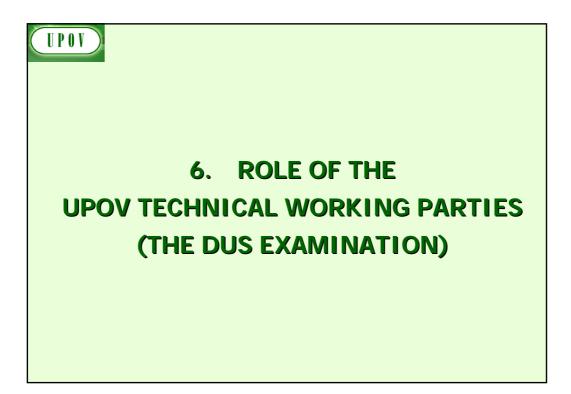
TPAT	INTERNATIONAL UNIO	FOR THE PROTECTION OF NEW VARIETIES OF PLANTS		
GENIE Database	HOME ABOUT UPC		ENTS	Y.
List of Crop / Species	GENIE Da	tabase		
List of Authorities Standard Reports Spreadsheets UPOV-ROM Plant Variety Database UPOV Code System	Simple Search Crop / Species:	h Multiple Search Report ALL Botanical Name Common Name in English Common Name in French Common Name in German Search Search		
	UPOV Code: Search Authority:	by Name: ** Please select ** by 2-letter ISO Code:		
	* 1			

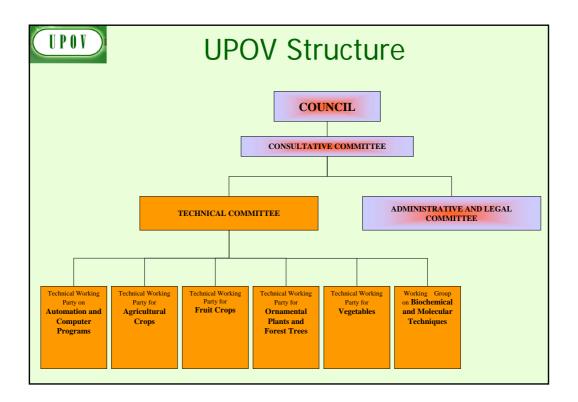




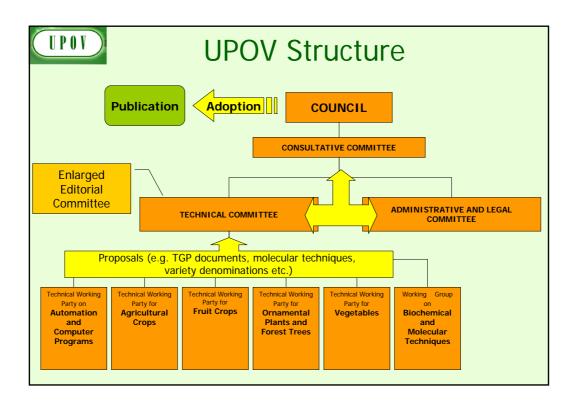


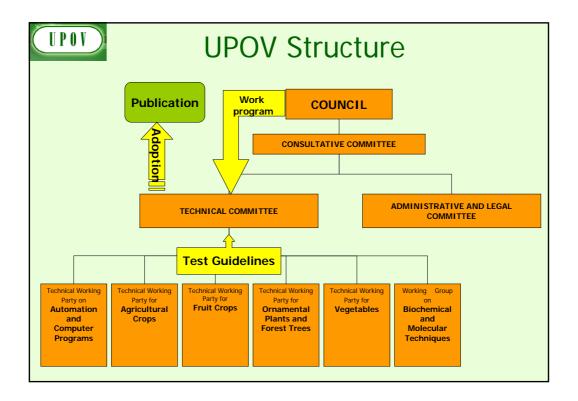












				Exan	nple TWI	P Session					
Sunday	Monday		Tuesday		Wedn	esday	Thu	sday	Friday		
[TECHNICAL WORKSHOP] (optional)	Reports on developments in PVP				TGP docume development		Experiences with new types and species Variety denominations		Databases, Electronic application systems Exchangeable software		
COFFEE	COFFEE		COFFEE		COF	FEE	COFFEE		COFFEE COFFEE		COFFEE
[TECHNICAL WORKSHOP] (optional)	Reports (Continuation) Molecular techniques		TGP document development		<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	Uniformity method development		Recommendations on Test Guidelines		
	LUN	CH	LUNCH		LUI	КСН	LUNCH		LUNCH		
PREPARATORY WORKSHOP	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup			<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	Future program Adoption of report		
COFFEE	COFFEE		TEE COFFEE		COF	FEE	TECHNIC	AL VISIT	COF	FEE	
PREPARATORY WORKSHOP			<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	END OF SESSION						
	Contir	uation	RECEPTION				Contir	uation			



UPOV)									
				Exan	nple TWI	P Session			
Sunday	Monday		ay Tuesday		Wednesday		Thursday		Friday
[TECHNICAL WORKSHOP] (optional)	Reports on developments in PVP					TGP document development Variety denominations		oecies	Databases, Electronic application systems Exchangeable software
COFFEE	COFFEE		COFFEE COFFEE		COF	FEE	COFFEE		COFFEE
[TECHNICAL WORKSHOP] (optional)	Reports (Continuation) Molecular techniques		TGP document development		<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	Uniformity method development		Recommendations on Test Guidelines
	LUN	NCH	LUNCH		LUI	NCH	LUNCH		LUNCH
PREPARATORY WORKSHOP	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup			<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	Future program Adoption of report
COFFEE	COF	FEE	COF	FEE	TECHNIC	AL VISIT	COF	FEE	
PREPARATORY WORKSHOP	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup			<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	END OF SESSION
	Contir	nuation	RECE	RECEPTION			Contin	uation	



				<u>Exan</u>	nple TWI	P Session	<u>l</u>						
Sunday	Monday		Tue	sday	Wedn	esday	Thursday		Friday				
	Reports on developments in PVP		TGP document development		TGP document development Variety denominatio		pecies	Databases, Electronic application systems Exchangeable software					
[TECHNICAL WORKSHOP]	COFFEE		COFFEE		COF	FEE	COFFEE		COFFEE				
(optional)	I) Reports (Continuation) Molecular techniques		TGP document development		<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	Uniformity method development		Recommendations on Test Guidelines				
	LUN	CH	LUNCH		LUI	NCH	LUNCH		LUNCH				
PREPARATORY	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup							<u>Room 1</u> Test Guidelines subgroup	<u>Room 2</u> Test Guidelines subgroup	Future program Adoption of report
WORKSHOP	COF	FEE	COF	FEE	TECHNIC	AL VISIT	COF	FEE					
	Room 1	Room 2	<u>Room 1</u>	Room 2			Room 1	Room 2					
	Test Guidelines subgroup	Test Guidelines subgroup	Test Guidelines subgroup	Test Guidelines subgroup			Test Guidelines subgroup	Test Guidelines subgroup	END OF SESSION				
	Contir	uation	RECE	PTION			Contir	uation					

UPOV	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	Uruguay	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	Kenya	USA
2006	China	Kenya	Brazil	Brazil	Mexico	Rep. of Korea
2007	Hungary	Romania	Rep. of Korea	China	Kenya	
2008	South Africa	Rep. of Korea	Portugal	Netherlands	Poland	Spain
2009	Rep. of Korea	USA	France	European Union	China	
2010	Croatia	European Union	Mexico	Mexico	Bulgaria	Canada
	May 24-28	June 28 - July 2	Sept. 27 - Oct. 1	Sept. 20 - 24	July 5 - 9	May 11 - 13

