

UPOV

TG/100/4(proj.2)

ORIGINAL:English

DATE: January28,2003

INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS

GENEVA

DRAFT

QUINCE

(*Cydonia Mill.sensustricto*)

GUIDELINES

FORTHECONDUCTOFTESTS

FORDISTINCTNESS,UNIFORMITYANDSTABILITY

AlternativeNames: *

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Cydonia Mill. sensustricto</i>	Quince	Cognassier	Quitte	Membrillero

ASSOCIATEDDOCUMENTS

TheseguidelinesshouldbereadinconjunctionwithdocumentTG/1/3,“GeneralIntroduction to the Examination of Distinctness, Uniformity and Stability and the Development of HarmonizedDescriptionsofNew VarietiesofPlants”(hereinafterreferredtoasthe“General Introduction”)anditsassociated“TGP”documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Cydonia Mill. sensu stricto*.

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of grafted plants or grafting material.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

5 two year-old grafted plants or grafting material sufficient for 5 trees.

It is recommended that one of the following rootstock varieties should be used:

quince 'East Malling A' or 'BA29'

or any other rootstocks specified by the competent authorities.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. It should especially be free from viruses as required by the competent authorities. It should preferably not be obtained from *in vitro* propagation. If it has been produced by *in vitro* propagation, this fact must be stated by the applicant.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Duration of Tests*

The minimum duration of tests should normally be two independent growing cycles. For the purposes of these Test Guidelines, a growing cycle refers to the fruiting cycle.

3.2 *Testing Place*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the variety may be tested at an additional place.

3.3 *Conditions for Conducting the Examination*

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the

examination. In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 5 plants.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 *Number of Plants/Parts of Plant to be Examined*

Unless otherwise indicated, all observations determined by measuring or counting should be made on 5 plants or parts taken from each of 5 plants. In the case of plant parts, the number to be taken from each of the plants should be 2.

3.6 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 *General Recommendations*

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

4.1.2 *Consistent Differences*

The minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

4.1.3 *Clear Differences*

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

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.

4.2.2 For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 5 plants, no off-types are allowed.

4.3 *Stability*

4.3.1 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, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness is 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 others 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 trials so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Plant: habit (characteristic 2);
- (b) Leaf blade: shape (characteristic 12);
- (c) Fruit: general shape in longitudinal section (characteristic 27).

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and 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.

6.2 States of Expression and Corresponding Notes

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

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

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

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

(a)-(d) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8, Section 8.2

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tablă de caractere

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. (*) (+)	(a) Plant: vigor	Plante: vigueur	Pflanze: Wuchsstärke	Planta: vigor		
QN	weak	faible	gering	débil	Moldovenești, Pear Shaped	3
	medium	moyenne	mittel	medio	Ekmek Ayvasi, Hemus	5
	strong	forte	stark	fuerte	Otličnica, Sekergeurek, Vranja	7
2. (*)	(a) Plant: habit	Plante: port	Pflanze: Wuchsform	Planta: port e		
PQ	upright	dressé	aufrecht	erecto	Vranja	1
	semi-upright	demi-dressé	halbaufrecht	semierecto	Champion	2
	spreading	étalé	breitwüchsig	rastrero	Bourgeault	3
3. (*)	(a) One-year-old shoot: habit	Rameau d'un an: port	Einjähriger Trieb: Wuchs	Ramade un año: porte		
PQ	straight	droit	gerade	recto	Selena	1
	wavy	ondulé	gewellt	ondulado	Vranja	2
	zig-zag	enzigzag	zickzackförmig	enzig -zag	Pear Shaped	3
4. (*)	(a) One-year-old shoot: length of internode	Rameau d'un an: longueur des entre-nœuds	Einjähriger Trieb: Länge des Internodiums	Ramade un año: longitud del entrenudo		
QN	short	courts	kurz	corto	Bencikli	3
	medium	moyens	mittel	medio	Bourgeault, Champion	5
	long	longs	lang	largo	Matador	7
5. (*)	(a) One-year-old shoot: pubescence (upper third)	Rameau d'un an: pubescence (tiers supérieur)	Einjähriger Trieb: Behaarung (oberes Drittel)	Ramade un año: pubescencia (tercio superior)		
QN	weak	faible	gering	débil	Ronda	3
	medium	moyenne	mittel	media	Bereczki	5
	strong	forte	stark	fuerte	Champion	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
6. (*)	(a) One-year-oldshoot: color	Rameaud'unan: couleur	EinjährigerTrieb: Farbe	Ramadeunaño: color		
PQ	greybrown	brungris	graubraun	marróngrisáceo	d'Angers	1
	greenishbrown	brunverdâtre	grünlichbraun	marrónverdoso	Selena	2
	reddishbrown	brunrougeâtre	rötlichbraun	marrónrojizo	Cydopom	3
	mediumbrown	brunmoyen	mittelbraun	marrónmedio	Ronda	4
	darkbrown	brunfoncé	dunkelbraun	marrónoscuro	Shams	5
7. (*)	(a) One-year-oldshoot: sizeofle nticels	Rameaud'unan: tailedes lenticelles	EinjährigerTrieb: Größeder Lentizellen	Ramadeunaño: tamañodelas lenticelas		
QN	small	petite	klein	pequeñas	Champion	3
	medium	moyenne	mittel	medianas	Bereczki	5
	large	grande	groß	grandes	Cydopom	7
8. (+)	Shoot:positionof vegetativebudin relationtoshoot	Rameau:position dubourgeonpar rapportàlapousse	Trieb:Stellungder vegetativenKnospe imVerhältniszum Trieb	Rama:posicióndela yemademaderaen relaciónconlarama		
QN	adpressed	appliqué	anliegend	alineada	Vranja	1
	slightlyheldout	légèrementdivergent	leichtabstehend	ligeramente divergente	Krymska	2
	stronglyheldout	fortementdivergent	deutlichabstehend	fuertemente divergente		3
9. (*)	(b) Leafblade:att itude	Limbe:port	Blattspreite: Haltung	Limbo:porte		
QN	upright	dressé	aufwärtsgerichtet	erectoascendente	Pinter	1
	horizontal	horizontal	abstehend	horizontal	Leskovacz	2
	downwards	verslebas	abwärtsgerichtet	descendente	Hruskovita	3
10. (*)	(b) Leafblade:length	Limbe:longueur	Blattspreite:Länge	Limbo:longitud		
QN	short	court	kurz	corto	Pinter	3
	medium	moyen	mittel	medio	Ronda	5
	long	long	lang	largo	Matador, Vranja	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
11. (b) Leafblade:width (* (*)	Limbe:largeur	Blattspreite:Breite	Limbo:anchura		
QN narrow	étroit	schmal	estrecho	Pinter	3
medium	moyen	mittel	medio	Otličnica	5
broad	large	breit	ancho	Isfahan	7
12. (b) Leafblade:shape (* (+)	Limbe:forme	Blattspreite:Form	Limbo:forma		
PQ elliptic	elliptique	länglich	elíptico	DellaCina	1
circular	circulaire	rund	circular	Constantinopel,Mollesca	2
oæte	ovale	eiförmig	oval	Fabre	3
obovate	obovale	verkehrt-eiförmig	oboval	Tavsambas	4
13. (b) Leafblade:shape of base (+)	Limbe:formede la base	Blattspreite:Form derBasis	Limbo:formadela base		
PQ cuneate	cunéiforme	keilförmig	uniforme	Asenica	1
rounded	arrondie	abgerundet	redondeada	GuzukGobek	2
truncate	tronquée	gerade	truncada	Alesa	3
cordate	cordée	herzförmig	cordiforme	Kocurova	4
14. (b) Leafblade:angle at apex(excluding pointed tip) (* (+)	Limbe:angle au sommet(sans l'extrémité pointue)	Blattspreite:Winkel ander Spitze(ohne aufgesetzte Spitze)	Limbo:ángulo del extremo(excluyendo elápice)		
QN acute	aigu	spitz	agudo	Shams	1
right-angled	droit	rechtwinklig	enángulo recto	Mezötúri	2
obtuse	obtus	stumpf	obtus	DiBazine,Champion	3
15. (b) Leafblade:length of tip (* (+)	Limbe:longueur de l'extrémité	Blattspreite:Länge der Spitze	Limbo:longitud del ápice		
QN short	courte	kurz	corto	Jurak, Triumph	3
medium	moyenne	mittel	medio	Hemus	5
long	longue	lang	largo	Otličnica	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16. (b)	Leafblade:profile incross section	Limbe:profilen section transversale	Blattspreite:Profil im Querschnitt	Limbo:perfil de la sección transversal		
PQ	straight	droit	eben	recto	GuzukGobek	1
	concave	concave	konkav	concavo	Vranja	2
17. (b)	Leafblade: undulation of margin	Limbe:ondulation du bord	Blattspreite: Randwellung	Limbo:ondulación del margen		
QN	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Muskatnaja	1
	weak	faible	gering	débil	Champion	3
	medium	moyenne	mittel	media	Bereczki	5
	strong	forte	stark	fuerte	EkmekAyvasi	7
18. (b)	Petiole:length	Pétiole:longueur	Blattstiel:Länge	Pecíolo:longitud		
QN	short	court	kurz	corto	Portugal	3
	medium	moyen	mittel	medio	Bourgeault	5
	long	long	lang	largo	Champion	7
19.	Stipule:size	Stipule:taille	Nebenblatt:Größe	Estípulas:tamaño		
QN	absent or very small	nulle ou très petit	fehlend oder sehr klein	ausente o muy pequeñas	Otličnica	1
	small	petit	klein	pequeñas	Adams	3
	medium	moyen	mittel	medias	Pear Shaped, Constantinopel	5
	large	grand	groß	grandes	Vranja	7
	very large	très grand	sehr groß	muy grandes	Aurii, Buchlowice	9
20. (*)	(c) Flower:size	Fleur:taille	Blüte:Größe	Flor:tamaño		
QN	small	petite	klein	pequeña	DellaCina	3
	medium	moyenne	mittel	media	Champion	5
	large	grande	groß	grande	Turunchuksaya, Vranja	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
21. (c) Flower:color	Fleur:couleur	Blüte:Farbe	Flor:color		
(+)					
PQ	white	weiß	blanco	d' Angers	1
	lightpink	hellrosa	rosaclaro	Mesörtüi	2
	darkpink	dunkelrosa	rosaoscuro	Vranja	3
22. (c) Flower: arrangement of petals	Fleur: disposition des pétales	Blüte: Anordnung der Blütenblätter	Flor: disposición de los pétalos		
(+)					
QN	free	freistehend	separados	DellaCina	1
	touching	einanderberührend	tocándose	Hemus	2
	overlapping	überlappend	solapados	Vranja	3
	irregular	unregelmäßig	irregulares		4
23. (c) Petal:shape	Pétale:forme	Blütenblatt:Form	Pétalo:forma		
(+)					
PQ	elliptic	elliptisch	elíptica	Patrasso	1
	circular	rund	circular	Champion	2
	square	quadratisch	cuadrada	Portugal	3
	oblong	rechteckig	oblonga	Tekes	4
24. (c) Petal: undulation of margin	Pétale: ondulation du bord	Blütenblatt: Randwellung	Pétalo: ondulación del margen		
QN	weak	schwach	débil	Brno,Constantinopel	3
	medium	mittel	media	TurkeyNo.4	5
	strong	stark	fuerte	Şafranii	7
25. (c) Flower: position of stigma relative to anthers	Fleur: position du stigmate par rapport aux anthères	Blüte: Stellung der Narbe im Verhältnis zu den Antheren	Flor: posición del estigma en relación con las anteras		
QN	below	unterhalb	por debajo	Ekmek, Mesörtüi	1
	same level	auf gleicher Höhe	al mismo nivel	Aurii	2
	above	oberhalb	por encima	Bereczki	3

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
26. (d) Fruit: size (* (+)	Fruit: taille	Frucht: Größe	Fruto: tamaño		
QN small	petit	gering	pequeño	Bourgeault	3
medium	moyen	mittel	medio	Champion	5
large	grand	groß	grande	Vranja	7
27. (d) Fruit: general shape (* (+)	Fruit: forme générale en section longitudinale	Frucht: allgemeine Form im Längsschnitt	Fruto: forma general en sección longitudinal		
PQ elliptic	elliptique	elliptisch	elíptica	DellaCina	1
circular	circulaire	kreisförmig	circular	Fruits Ronds, Jurak	2
square	carré	quadratisch	cuadrada	Aurii	3
obovate	obovale	verkehrteiförmig	oboval	Ispolinskaya	4
pyriform	pyriforme	birnenförmig	piriforme	Hruskovita, Vranja	5
28. (d) Fruit: symmetry in longitudinal section (* (+)	Fruit: symétrie en section longitudinale	Frucht: Symmetrie im Längsschnitt	Fruto: simetría en sección longitudinal		
PQ asymmetric	asymétrique	asymmetrisch	asimétrico	Radonia	1
symmetric	symétrique	symmetrisch	simétrico	Leskovacz	2
29. (d) Fruit: position of maximum diameter	Fruit: emplacement du plus grand diamètre	Frucht: Position des größten Durchmessers	Fruto: punto de diámetro máximo		
PQ in middle	aumilieu	in der Mitte	en el medio	Ronda	1
towards calyx end	vers les ommet	zum Kelchende hin	hacia el final del caliz	Vranja	2
30. (d) Fruit: presence of neck (* (+)	Fruit: présence d'un col	Frucht: Vorhandensein eines Halses	Fruto: presencia de cuello		
QL absent	absent	fehlend	ausente	Aurii	1
present	présent	vorhanden	presente	Vranja	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
31. (d) Fruit:lengthofneck (* (+)		Fruit:longueur du col	Frucht:Längedes Halses	Fruto:longituddel cuello		
QN	short	court	kurz	corto	Portugal	3
	medium	moyen	mittel	medio	Limon	5
	long	long	lang	largo	Hruskovita	7
32. (d) Fruit:prominence ofribsatstalkend (*		Fruit:importance descôtesà l'extrémité pédonculaire	Frucht:Ausprägung derRippenam Stielende	Fruto:prominencia delacostilladoenel extremopeduncular		
QN	absentorveryweak	nulleoutrèsfaible	fehlendoder sehrgering	ausenteomuydébil	Krymskaya	1
	weak	faible	gering	débil	Ronda	3
	medium	moyenne	mittel	medio	Portugal	5
	strong	forte	stark	fuerte	Constantinopel	7
33. (d) Fruit:prominence ofribsatcalyxend (*		Fruit:importance descôtesausommet	Frucht:Ausprägung derRippenam Kelchende	Fruto:prominencia delacostilladoenel extremodelcaliz		
QN	absentorveryweak	nulleo utrèsfaible	fehlendoder sehrgering	ausenteomuydébil	Pinter	1
	weak	faible	gering	débil	Ronda	3
	medium	moyenne	mittel	medio	Champion	5
	strong	forte	stark	fuerte	Bereczki	7
34. (d) Fruit:stalkcavity		Fruit:cavité pédonculaire	Frucht:Stie lgrube	Fruto:cavidad peduncular		
QN	absentorverysmall	nulleoutrèspetite	fehlendoder sehrklein	ausenteomuy pequeña	Bereczki	1
	small	petite	klein	pequeña	Patrasso	3
	medium	moyenne	mittel	media	Portugal	5
	large	grande	groß	grande	Tekes	7

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
35. (d) Fruit: size of eye basin	Fruit: taille de la cuvette de l'œil	Frucht: Größe der Kelchgrube	Fruto: tamaño de la cavidad del ojo		
QN small	petite	klein	pequeña	Ronda	3
medium	moyenne	mittel	media	Vranja	5
large	grande	groß	grande	Tekes	7
36. (d) Fruit: color	Fruit: couleur	Frucht: Farbe	Fruto: color		
PQ yellowgreen	vertjaune	gelbgrün	verde amarillento	Champion, Ispolinskaya	1
yellow	jaune	gelb	amarillo	Constantinopel	2
yelloworange	jauneorange	gelborange	naranja amarillento	Moldovenești	3
37. (*) Time of leaf bud burst	Époque du débourrement des yeux	Zeitpunkt des Blattaustriebs	Época de aparición del ayema foliar		
QN early	précoce	früh	temprana	Vranja	3
medium	moyenne	mittel	media	Bereczki	5
late	tardive	spät	tardía		7
38. (*) Time of beginning of flowering	Époque du début de la floraison	Zeitpunkt des Blühbeginns	Época del comienzo de la floración		
QN early	précoce	früh	temprana	Turunchuksaya	3
medium	moyenne	mittel	media	Vranja	5
late	tardive	spät	tardía	Constantinopel	7
39. (*) (+) Time of beginning of fruit ripening	Époque du début de la maturité des fruits	Zeitpunkt des Beginns der Fruchtreife	Época del comienzo de la maduración del fruto		
QN early	précoce	früh	temprana	Radonia	3
medium	moyenne	mittel	media	Hemus	5
late	tardive	spät	tardía	Ispolinskaja	7

8. ExplanationsontheTableofCharacteristics

8.1 *Explanationscoveringseveralcharacteristics*

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

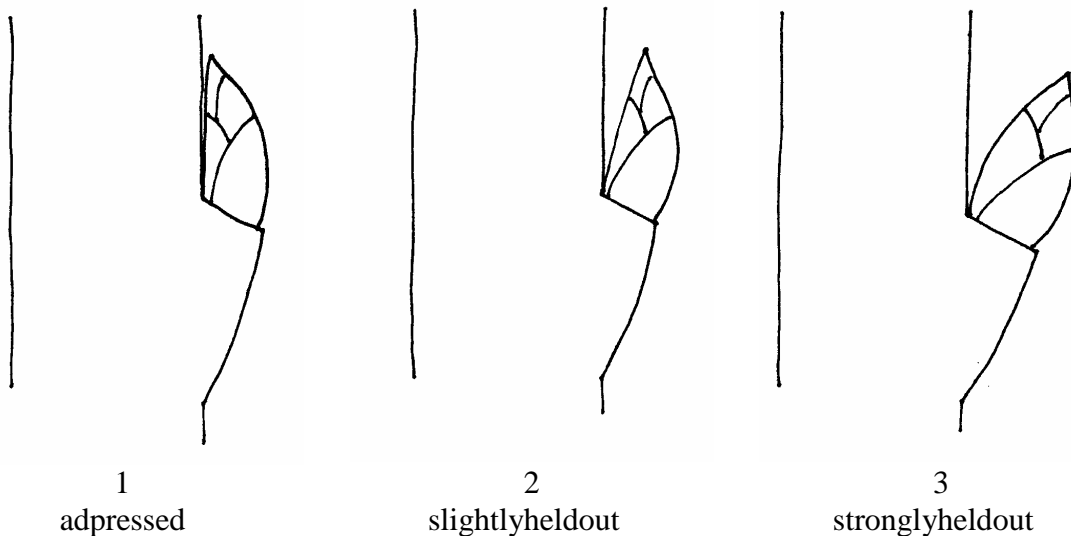
- (a) Plant/One-year-old shoot : Observations on the plant and on the one -year-old shoot should be made during winter on plants that have fruited at least once. The length of the internodes should be observed in the middle of the shoot.
- (b) Leaf: Observations on the leaf should be made in summer on fully developed leaves from the middle third of a current season's shoot.
- (c) Flower: Observations on the flower should be made on fully developed flowers at the beginning of anther dehiscence.
- (d) Fruit: Observations on the fruits should be made on fully ripened fruits.

8.2 *Explanationsofindividualcharacteristics*

Ad.1.Plant:vigor

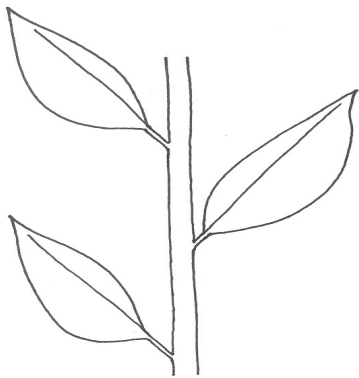
The vigor of the plant should be considered as the overall abundance of vegetative growth.

Ad.8:Shoot:positionofvegetativebudinrelationtoshoot

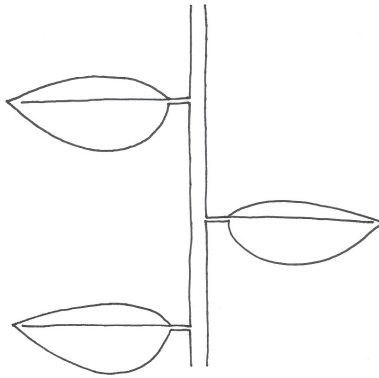


Ad.9:Leafblade:attitude

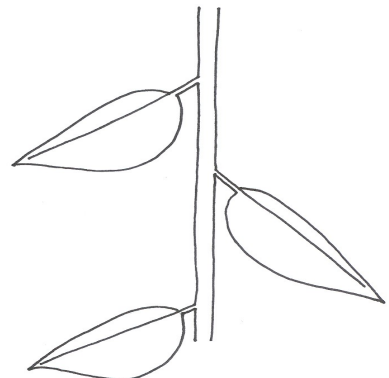
The attitude of the leaf blades should be observed on erect shoots.



1
upright

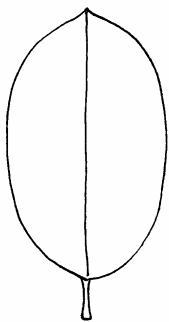


2
horizontal

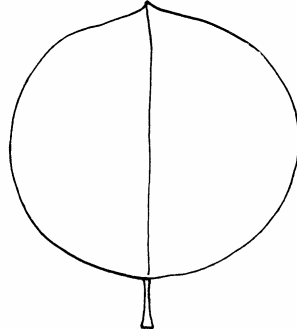


3
downwards

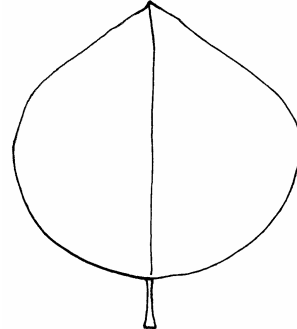
Ad.12:Leafblade:shape



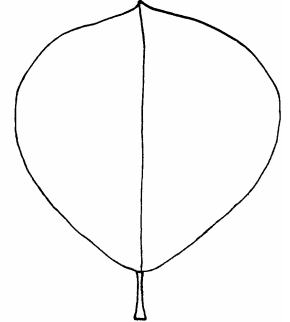
1
elliptic



2
circular

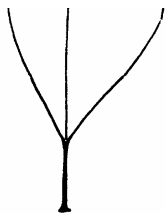


3
ovate

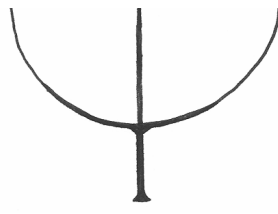


4
obovate

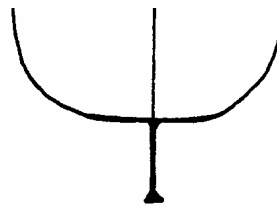
Ad.13:Leafblade:shapeofbase



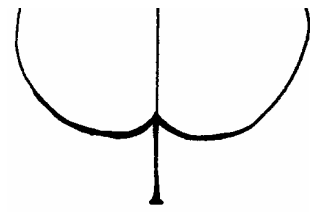
1
cuneate



2
rounded

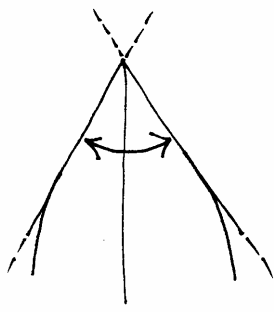


3
truncate

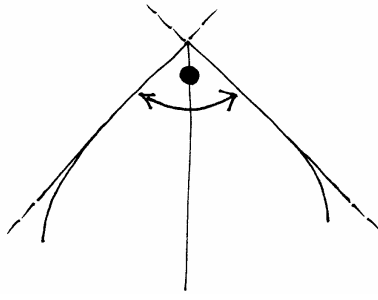


4
cordate

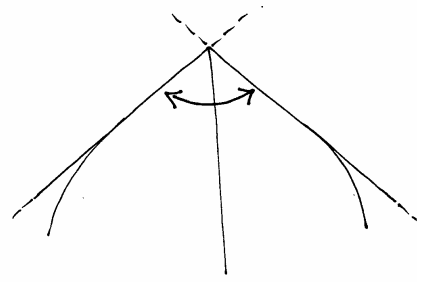
Ad.14 :Leafblade:angleat apex(excludingpointedtip)



1
acute

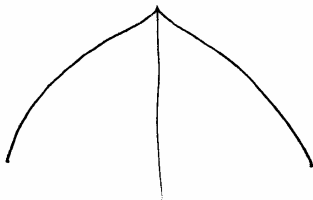


2
right-angled

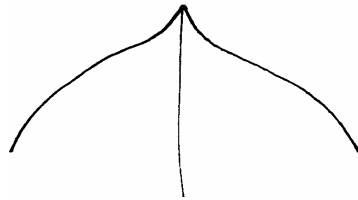


3
obtuse

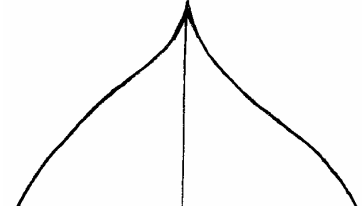
Ad.15:Leafblade:lengthoftip



3
short



5
medium

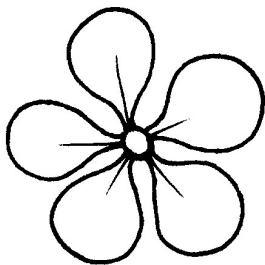


7
long

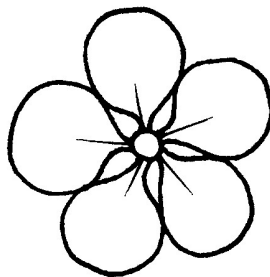
Ad.21:Flower:color

The color of the flowers should be observed on the first day on which it opens.

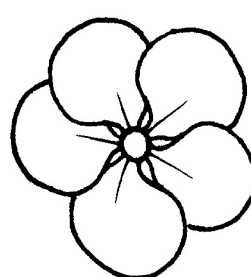
Ad.22:Flower:arrangement of petals



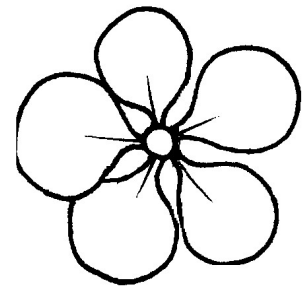
1
free



2
touching

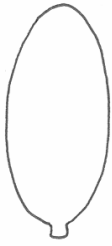


3
overlapping

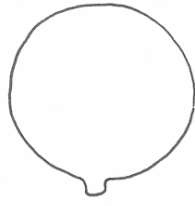


4
irregular

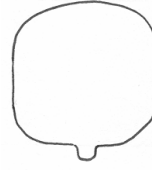
Ad23.Petal:shape



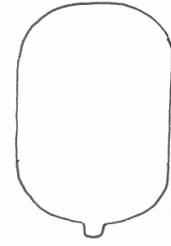
1
elliptic



2
circular

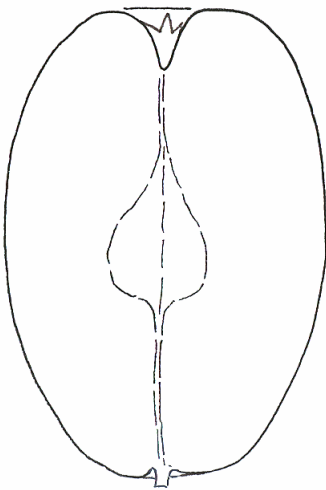


3
square

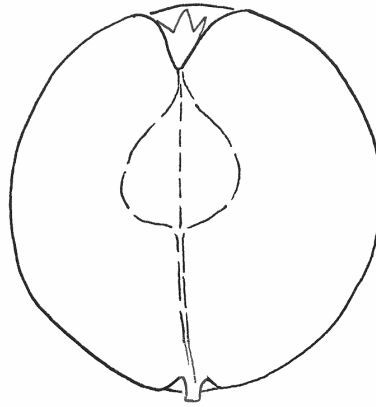


4
oblong

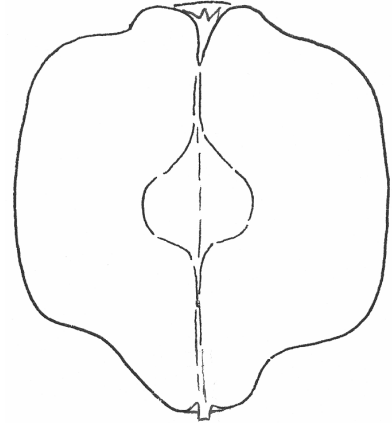
Ad.27:Fruit:generalshapeinlongitudi nalsection



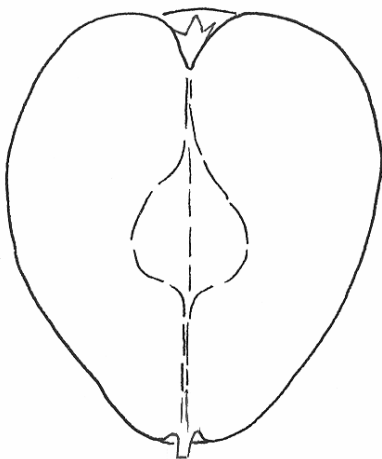
1
elliptic



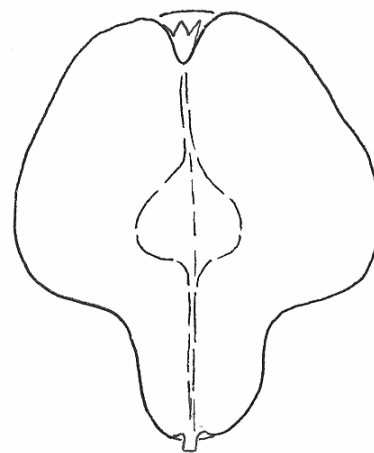
2
circular



3
square

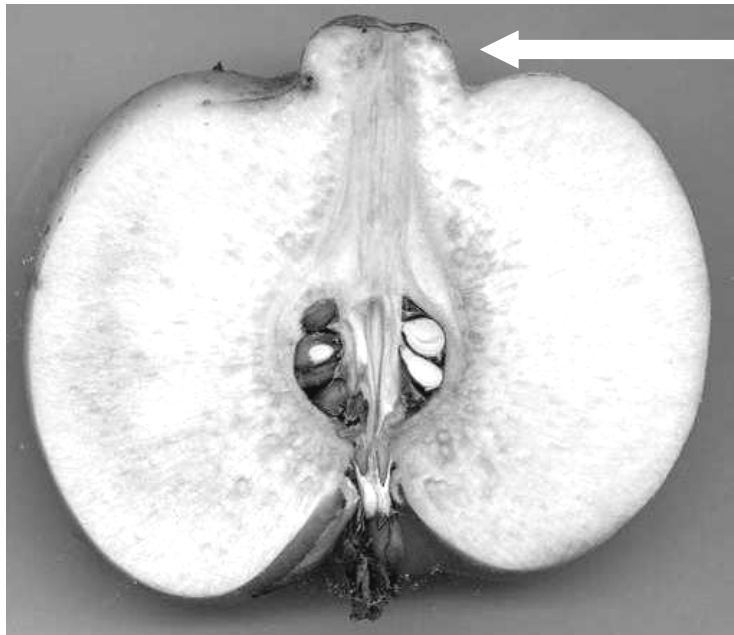


4
obovate



5
pyriform

Ads.30,31:Fruit:presenceofneckandlengthofneck



Ad.39:Timeofbeginningoffruitripening

The time of beginning of fruit ripening should be observed at the time when the fruit is most easily picked from the tree.

9. Literature

Alibert, J. -P., Masseron, A., 1979: "Le cognassier à fruits", Ctifl -Documents No. 62, pp. 69-79.

Bordeianu, T.; Constantinescu, N.; Stefan, N., 1968: "Pomologia, Bd. VII", Editura Academiei Republicii Socialiste Romania, Bukarest, 775pp.

Krüssmann, G., 1951: "Die Quitten", Verlag Deutsche Gärtnerbörse, Aachen, 27pp.

Michelesi, J.C., Brossier, J., Flick, J.D., 1973: "Première observations sur plusieurs variétés de cognassiers à fruits", Arboriculture Fruitière, pp. 233/234.

Popov, E., 1958: "B' Lgarska Pomologiya". D' rzhavno Izdatelstv za Selskostopanska Literatura, Sofiya.

Schuricht W.; Friedrich, G., 1988: "Nüsse und Quitten", Neumann Verlag, Leipzig u. Radebeul, 144pp.

10. TechnicalQuestionnaire

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapp licationforplantbreeders'rights		
1. SubjectoftheTechnicalQuestionnaire		
1.1 LatinName	<input type="text" value="CydoniaMill. sensustricto"/>	
1.2 CommonName	<input type="text" value="Quince"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
TelephoneNo.	<input type="text"/>	
FaxNo.	<input type="text"/>	
E-mailaddress	<input type="text"/>	
Breeder(ifdifferentfromapplicant)	<input type="text"/>	
3. Proposeddenominationandbreeder'sreference		
Proposeddenomination (ifavailable)	<input type="text"/>	
Breeder'sreference	<input type="text"/>	

TECHNICALQUESTIONNAIRE	Page {x} of {y}	ReferenceNumber:
------------------------	-----------------	------------------

4. Informationonthebreedingschemeandpropagationof thevariety

4.1 BreedingScheme

Varietyresultingfrom:

4.1.1 Crossing

- (a) controlledcross
(pleasestateparentvarieties)
- (b) partiallyunknowncross
(pleasestateknownparentvariety(ies))
- (c) totallyunknowncross

4.1.2 Mutation
(pleasestateparentvariety)

4.1.3 Discovery
(pleasestatewhere,whenandhowdeveloped)

4.1.4 Other
(pleaseprovidedetails)

4.2 MethodofPropagatingtheVariety

4.2.1 Vegetativepropagation

- (a) *invitro* propagation
- (b) other(e.g.leafcutting,hardwoodcutting,layer)
(statemethod)

4.2.2 Seed

4.2.3 Other
(pleaseprovidedetails)

4.3 Virusstatus

4.3.1 Thevarietyisfreefromallknownvirusesasfollows:
(indicate fromwhichviruses)

4.3.2 Theplantmaterialisvirustested:
(indicateagainstwhichviruses)

4.3.3 Thevirusstatusisunknown

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the one which best corresponds).

Characteristics	Example Varieties	Note
5.1 Plant:habit (2)		
upright	Vranja	1[]
semi-upright	Champion	2[]
spreading	Bourgeault	3[]
5.2 Leafblade:sha pe (12)		
elliptic	DellaCina	1[]
circular	Constantinopel,Mollesca	2[]
ovate	Fabre	3[]
obovate	Tavsambas	4[]
5.3 Fruit:generalshapeinlongitudinalsection (27)		
elliptic	DellaCina	1[]
circular	FruitsRonds,Jurak	2[]
square	Aurii	3[]
obovate	Ispolinskaya	4[]
pyriform	Hruskovita,Vranja	5[]

TECHNICALQUESTIONNAIRE	Page {x} of {y}	ReferenceNumber:
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7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes No

(If yes, please provide details)

7.2 Special conditions for the examination of the variety

7.2.1 Are there any special conditions for growing the variety or conducting the examination?

Yes No

7.2.2 If yes, please give details:

7.3 Other information

A representative colour photograph of the variety should accompany the Technical Questionnaire.

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes No

(b) Has such authorization been obtained?

Yes No

If the answer to (b) is yes, please attach a copy of the authorization.

9. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date

[End of document]