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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY
FOR
ORNAMENTAL PLANTS AND FOREST TREES**

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WORKING PAPER ON DRAFT TECHNICAL GUIDELINES FOR ORNAMENTAL APPLE

Document prepared by experts from the United Kingdom



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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

Ornamental Apple *
<i>Malus Mill.</i> *

GUIDELINES
FOR THE CONDUCT OF TESTS
FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names: *

Latin	English	French	German	Spanish
<i>Malus Mill.</i> *	Ornamental Apple			

ASSOCIATED DOCUMENTS

These guidelines should be read in conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (hereinafter referred to as the "General Introduction") and its associated "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

1.1 These Test Guidelines apply to all varieties of ornamental apple, *Malus* Mill., of the family Rosaceae.

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 three -year old trees on a rootstock.

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

Five three -year old trees on a rootstock .

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. A rootstock should be named when the plant material is supplied. The competent authorities may prescribe the rootstock on which the variety should be grafted.

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

{ ASW2(Section 3.1) –number of growing cycles }

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*

3.3.1 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.

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

- (a) All observations on the unopened flower should be made on the second or third flower bud when the terminal flower is opening.
- (b) All observations on the flower should be made at the start of a nther dehiscence on second or third flowers with intact pedicel.
- (c) All observations on the current season's shoot should be made on shoots from the outside of the tree in summer while the tree is still in active growth.
- (d) Unless otherwise indicated all observations on the leaf should be made on mature leaves taken in summer from the middle third of a vigorous shoot of the current season on the outside of the tree.
- (e) Unless otherwise indicated, for the observations on the fruit, 10 typical fruits should be selected. The terminal fruits should be excluded. The fruits should be examined before they are affected by any damage due to weather, bird setc.

3.3.3 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background .

3.4 *Test Design*

3.4.1 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.

3.4.2 Each test should be designed to result in a total of at least five trees.

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

Unless otherwise indicated, all observations determined by measuring or counting should be made on two plant parts taken from each of five trees.

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 difference in a characteristic is 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 The acceptable number of off-types tolerated in a sample size of 5 plants is 0 on the basis of a population standard of 1% and an acceptance probability of 95%.

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 seed or 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) Flower: type (characteristic 6)
- (b) Petal: color of marginal zone of inner side (characteristic 12)
- (c) Expanding leaf: color of blade (characteristic 16)
- (d) Fruit: size (characteristic 29)
- (e) Fruit: predominant colour (characteristic 35).

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-Quantitative characteristic –see Section 6.3
- (+) See Explanations on the Table of Characteristics in Chapter 8.
- (a)-(e) Method of observation –See section 3.3.2

7. TableofCharacteristics/Tableaudecaractères/Merkmalstabelle/Tabladecaracteres

Char. No.	MoE*	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
1.		Tree:vigor					
		weak				Dorothea	3
		medium				Dolgo	5
		strong				<i>Malusbaccata</i> Jackii	7
2.		Tree:habit					
(*)							
(+)							
		columnar				Maypole	1
		fastigate				Laura	2
		upright				VanEseltine	3
		spreading				RedGlow	4
		drooping				EliseRathke	5
		weeping				Oekonomierat Echtermeyer	6
3.	(c)	Shoot:color					
		greygreen				RedSentinel	1
		browngreen				Wintergold	2
		brown				VanEseltine	3
		redbrown				HenryF.Dupont	4
		darkred				Evereste	5
4.		Inflorescence:type					
		umbellate				GoldenHornet	1
		corymbiform				<i>Maluscoronaria</i> Charlottae	2

* MoE=MethodofObservation

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
5. (*)	(a)	Unopenedflower:					
		color(balloonstage)					
		white				<i>Malustoringoides</i>	1
		lightpink				<i>Maluscoronaria</i> Charlottae	2
		mediumpink				Cowichan	3
		darkpink				<i>Malusfloribunda</i>	4
		red			RedGlow	5	
		purple				6	
6. (*)	(b)	Flower:type					
		single				Profusion	1
		semi-double				<i>Malusxscheideckeri</i>	2
		double			<i>Maluscoronaria</i> Nieuwlandiana	3	
7. (*)	(b)	Flower:diameter withpetalspressed intohorizontal position					
		small				Wintergold	3
		medium				Profusion	5
		large			MontrealBeauty	7	
8. (*)	(b)	Flower:shape					
		flat					1
		shallowcup				Courtarou	2
		deepcup			VanEseltine	3	

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
9. (*)	(b)	Petal:shape (excludingclaw)					
		oblong				<i>Maluscoronaria</i> Charlottae	1
		narrowelliptic					2
		elliptic				Makamik	3
		broadelliptic				Wynema	4
		circular				<i>Malusyunnanensis</i> Veitchii	5
		narrowovate				Katherine	6
ovate				Profusion	7		
10. (*)	(b)	Petals:relative positionofmargins					
		free				Makamik	1
		touching				JohnDownie	2
		overlapping				Butterball	3
11.	(b)	Petal:veins					
		notpr ominent				JohnDownie	1
		prominent				Almey	2
12. (*)	(b)	Petal:colorof marginalzoneof innerside					
		RHS-ColourChart (indicatereference number)					
13. (*)	(b)	Petal:colorof middlezoneofinner side(ifdifferent)					
		RHS-ColourCha rt (indicatereference number)					

Char. No.	MoE*	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
14. (*)	(b)	Petal:colorofbasal zoneofinnerside(if different)					
		RHS-ColourChart (indicatereference number)					
15. (*)	(b)	Petal:colorofouter side					
		RHS-ColourChart (indicatereference number)					
16. (*)	(d)	Expandingleaf: colorofblade					
		green				JohnDownie	1
		reddishgreen				WinterGold	2
		red					3
		reddishbrown				Laura	4
		bronze				IndianMagic	5
		purple				Royalty	6
17. (*)	(d)	Leafblade:length					
		short				<i>Malusfloribunda</i>	3
		medium				<i>Malus xpurpurea Lemoinei</i>	5
		long				Simcoe	7
18. (*)	(d)	Leafblade:width					
		narrow				Hopa	3
		medium				JohnDownie	5
		broad				MontrealBeauty	7

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota	
19.	(d)	Leafblade:ratio length/width(from fourthtosixthfully expandedleaf)						
								3
								5
								7
20. (*)	(d)	Petiole:length						
								3
								5
								7
21. (*)	(d)	Leafblade:lobes						
							Dolgo	1
							Wynema	2
							<i>Maluscoronaria</i> Nieuwlandiana	3
22. (*)	(d)	Leafblade: incisionsofmargin						
							Courtabri	1
							Scarlett	2
23. (*)	(d)	Leafblade: glossinessofupper side						
							Laura	3
								5
							Scarlett	7

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota	
24. (*)	(d)	Leafblade:green colorofupperside						
			light				RedJade	3
			medium					5
			dark				RedJewel	7
25. (*)	(d)	Leafblade: anthocyanin colorationofupper side						
			absent				Courtabri	1
			present				Royalty	9
26 (*)	(d)	Leafblade: intensityof anthocyanin colorationofupper side						
			weak				Cowichan	3
			medium				Baskatong	5
			strong				Royalty	7
27.	(d)	Leafblade:main colorjustbefore leaffall						
			yellow				<i>Malussargentii</i>	1
			orange				Scarlett	2
			red				Rosseau	3
			brown				Royalty	4
			bronze					5
		purple				6		

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
28.		Tree:fruitsetting					
		noneorveryfew				<i>Malus x atrosanguinea</i>	1
		few				<i>Malus x magdeburgensis</i>	3
		medium				Makamik	5
		many				JohnDownie	7
		verymany				GoldenHornet	9
29. (*)	(e)	Fruit:size					
		verysmall				<i>Malussargentii</i>	1
		small				Profusion	3
		medium				JohnDownie	5
		large				Wynema	7
		verylarge				Niedzwetzkyana	9

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota	
30. (*) (+)	(e)	Fruit:shape						
			globose				WinterGold	1
			globoseconical				Scarlett	2
			broadglobose conical					3
			flatobloid				<i>Malus xschiedeckeri</i>	4
			obloid				Profusion	5
			conical				Eleyi	6
			narrowconical				JohnDownie	7
			truncateconical				<i>Malus xarnoldiana</i>	8
			ellipsoid				<i>Malusbaccata</i> var. <i>mandshurica</i>	9
			ellipsoidconical (ovoid)				Dolgo	10
			oblong				<i>Malusyunnanensis</i> Veitchii	11
			oblongconical					12
	pyriform				<i>Malustoringoides</i>	13		
31. (*)	(e)	Fruit:calyx						
			absent				Scarlett	1
			sometimespresent				GoldenHornet	2
	alwayspresent				JohnDownie	3		

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
32.	(e)	Fruit:lengthhof stalk					
		veryshort				Redflesh	1
		short				Strathmore	3
		medium				JohnDownie	5
		long				Evereste	7
		verylong				<i>Malus xpurpurea</i> Aldenhamensis	9
33.	(e)	Fruit:bloomofskin					
		absent				Courtabri	1
		weaklyexpressed					2
		stronglyexpressed				Dartmouth	3
34.	(e)	Fruit:glossinessof skin					
		absent					1
		weaklyexpressed					2
		stronglyexpressed				Selkirk	3

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota	
35. (*)	(e)	Fruit:predominant color						
				yellow			GoldenHornet	1
				whitishyellow				2
				greenyellow			WhiteCascade	3
				whitishgreen				4
				mediumgreen			<i>Malustrilobata</i>	5
				orange			Evereste	6
				lightred				7
				mediumred			RedJade	8
				darkred			Profusion	9
				purple			PurplePrince	10
brownish				11				
36.	(e)	Fruit:colorofflesh						
				white				1
				yellowishwhite			EliseRathke	2
				greenish			<i>Maluscoronaria</i> Charlottae	3
				yellowish			Dolgo	4
				pink				5
red			Laura	6				
37. (*)	(e)	Fruit:persistence						
				veryshort			JohnDownie	1
				short			Dolgo	3
				medium			Dorothea	5
				long			Makamik	7
verylong			Evereste	9				

Char. No.	MoE*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
38.		Timeofbeginning offlowering(10% openflowers					
		early				Hopa	3
		medium				<i>Malus xpurpurea</i> Lemoinei	5
		late				Wynema	7

8. ExplanationsontheTableofCharacteristics

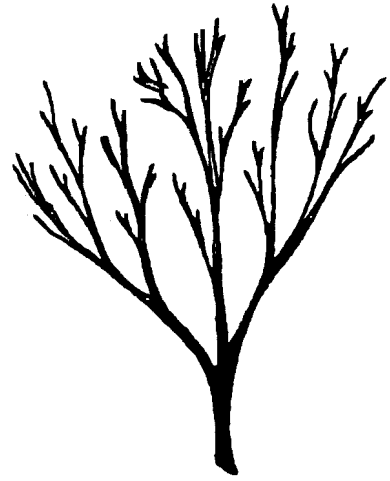
Ad2:Tree:habit



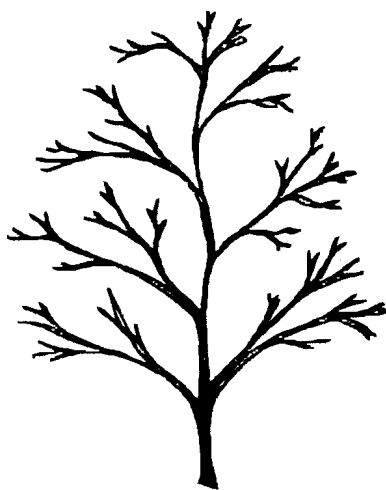
1
columnar



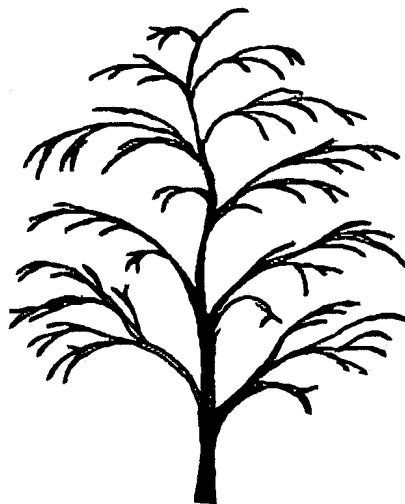
2
fastigate



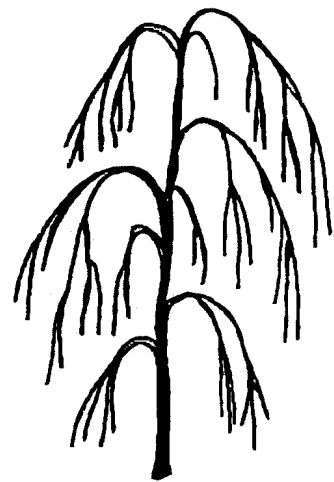
3
upright



4
spreading

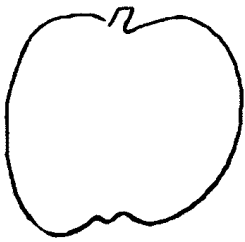


5
drooping

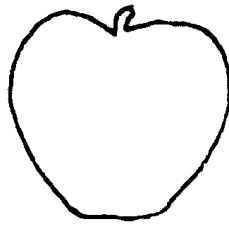


6
weeping

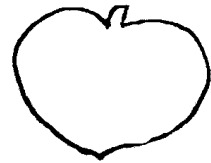
Ad30:Fruit:shape



1
globose



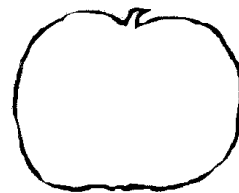
2
globoseconical



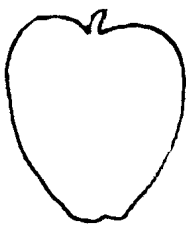
3
broadgloboseconical



4
flatobloid



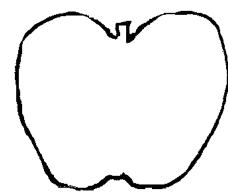
5
obloid



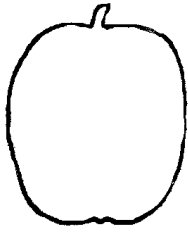
conical



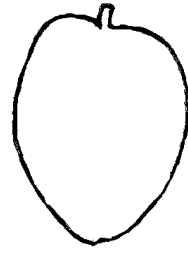
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narrowconical



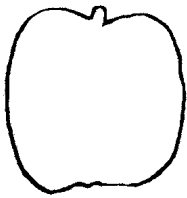
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truncateconical



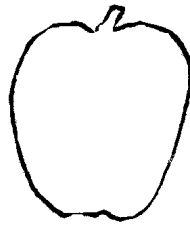
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ellipsoid



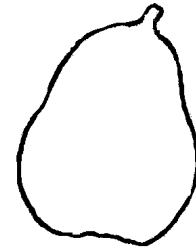
10
ellipsoidconical(ovoid)



11
oblong



12
oblongconical



13
pyriform

9. Literature

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10. TechnicalQuestionnaire

TECHNICALQUESTIONNAIRE	Page { x } of { y }	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights		
1. SubjectoftheTechnicalQuestionnaire		
1.1 Genus		
1.1.1 <i>LatinName</i>	<input type="text" value="MalusMill."/>	
1.1.2 CommonName	<input type="text" value="Ornamentalapple"/>	
1.2 Species(pleasecomplete)		
1.2.1 <i>LatinName</i>	<input type="text"/>	
1.2.2 CommonName	<input type="text"/>	
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"/>	

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3. Proposeddenominationandbreeder'sreference

Proposeddenomination (ifavailable)

Breeder'sreference

4. Informationonthebreedingschemeandpropagationofthevariety

4.1 BreedingScheme

4.1.1 Varietyresultingfrom:

- (a) controlledcross
(pleasestateparentvarietie s)
- (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

(a)cuttings

(b) *invitro* propagation

(c)other(statemethod)

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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 (6)	Flower: type		
	single	Profusion	1[]
	semi-double	<i>Malus xscheideckeri</i>	2[]
	double	<i>Malus coronaria</i> Nieuwlandiana	3[]
5.2i (12)	Petal: color of marginal zone of inner side		
	RHS-Colour Chart (indicate reference number)		
5.2ii (12)	Petal: color of marginal zone of inner side		
	white		1[]
	light pink		2[]
	dark pink		3[]
	red		4[]
	purple		5[]
5.3 (16)	Expanding leaf: color of blade		
	green	John Downie	1[]
	reddish green	Winter Gold	2[]
	red		3[]
	reddish brown	Laura	4[]
	bronze	Indian Magic	5[]
	purple	Royalty	6[]

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	Characteristics	ExampleVarieties	Note
5.4 (29)	Fruit:size		
	verysmall	<i>Malussargentii</i>	1[]
	small	Profusion	3[]
	medium	JohnDownie	5[]
	large	Wynema	7[]
	verylarge	Niedzwetzkyana	9[]
5.5 (35)	Fruit:predominantcolor		
	yellow	GoldenHornet	1[]
	whitishyellow		2[]
	greenyellow	WhiteCascade	3[]
	whitishgreen		4[]
	mediumgreen	<i>Malustrilobata</i>	5[]
	orange	Evereste	6[]
	lightred		7[]
	mediumred	RedJade	8[]
	darkred	Profusion	9[]
	purple	PurplePrince	10[]
	brownish		11[]

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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

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]