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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**

GENEVA

**DRAFT**

**RASPBERRY**

*(Rubusidaeus L.)*

**GUIDELINES**

**FOR THE CONDUCT OF TESTS**

**FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

Alternative Names: \*

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Rubusidaeus L.</i>	Raspberry	Framboisier	Himbeere	Frambueso

**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](http://www.upov.int)), for the latest information.]

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## 1. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Rubus idaeus* L. and their hybrids as far as they are morphologically similar to *Rubus idaeus* L.

## 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 plants with good root formation and with a satisfactory number of adventitious buds on the roots.

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

10 plants.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. The plants supplied should have good root formation, with a satisfactory number of adventitious buds on the roots. If they have been produced by *in vitro* propagation this fact has to 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.

### 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 plants 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 10 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 Plants to be Examined*

Unless otherwise indicated, all observations determined by measuring or counting should be made on 10 plants or parts taken from each of 10 plants. In the case of fruit, a single typical fruit should be taken from each of the 10 plants.

### 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.

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 10 plants, 1 off-type is 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) Very young shoot: anthocyanin coloration of apex during rapid growth (characteristic 3);
- (b) Spines: presence (characteristic 12);
- (c) Fruit: color (characteristic 35);
- (d) Fruit: main bearing type (characteristic 39);
- (e) Varieties which fruit on previous year's cane in summer: Time of beginning of fruit ripening on previous year's canes (characteristic 44);

or

Varieties which fruit on current year's cane in autumn: Time of beginning of fruit ripening on current year's canes (characteristic 45).

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

## 6. IntroductiontotheTableofCharacteristics

### 6.1 *CategoriesofCharacteristics*

#### 6.1.1 StandardTestGuidelinesCharacteristics

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 AsteriskedCharacteristics

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 *StatesofExpressionandCorrespondingNotes*

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 *TypesofExpression*

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

### 6.4 *ExampleVarieties*

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)-(f) 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 de ejemplo	Note/ Nota
<b>1.</b>	<b>Plant: habit</b>	<b>Plante: port</b>	<b>Pflanze: Wuchs</b>	<b>Planta: porte</b>		
(+)						
<b>PQ</b>	upright	dressée	aufrecht	erecto	Ontario, Watson	1
	semi-upright	demi dressée	halbaufrecht	semierecto	Autumn Bliss, Preußen, Schönemann	2
	arching	courbée	hängend	arqueado	Joan Squire, Malling Joy, Meeker	3
<b>2.</b>	<b>Plant: number of (*) current season's (+) shoots</b>	<b>Plante: nombre de jeunes pousses</b>	<b>Pflanze: Anzahl diesjähriger Ruten</b>	<b>Planta: número de brotes de la estación en curso</b>		
<b>QN</b>	few	petit	wenig	bajo	Rubaca, Rucami	3
	medium	moyen	mittel	medio	Glen Ample, Multiraspa, Rumiloba	5
	many	grand	viele	alto	Glen Clova, Skeena	7
	very many	très grand	sehr viele	muy alto	Sumner	9
<b>3.</b>	<b>(a) Very young shoot: (*) anthocyanin coloration of apex during rapid growth</b>	<b>Très jeune pousse: pigmentation anthocyanique de l'apex pendant la croissance rapide</b>	<b>Sehr junger Trieb: Anthocyanfärbung der Spitzewährend des schnellen Wachstums</b>	<b>Brote joven: pigmentación antociánica del ápice durante el crecimiento rápido</b>		
<b>QL</b>	absent	absente	fehlend	ausente	Gelbe Antwerpener	1
	present	présente	vorhanden	presente	Malling Promise	9
<b>4.</b>	<b>(a) Very young shoot: (*) intensity of anthocyanin coloration of apex during rapid growth</b>	<b>Très jeune pousse: intensité de la pigmentation anthocyanique de l'apex pendant la croissance rapide</b>	<b>Sehr junger Trieb: Intensität der Anthocyanfärbung der Spitzewährend des schnellen Wachstums</b>	<b>Brote joven: intensidad de la pigmentación antociánica del ápice durante el crecimiento rápido</b>		
<b>QN</b>	weak	faible	gering	débil	Rumiloba, Rusilva	3
	medium	moyenne	mittel	media	Cola 1, Rucami, Vetem	5
	strong	forte	stark	fuerte	Malling Joy, Rubaca	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>5. (b)</b>	<b>Current season's cane:bloom</b>	<b>Jeunecanne:pruine</b>	<b>DiesjährigeRute: Bereifung</b>	<b>Ramadelaestación encurso:pruina</b>		
<b>QN</b>	absentor veryweak	nulleoutrèsfaible	fehlendodersehr gering	ausenteomuydébil	Heritage,Willamette	1
	weak	faible	gering	ausente	MallingPromise ,Zefa 2	3
	medium	moyenne	mittel	media	MallingDelight	5
	strong	forte	stark	fuerte	GlenAmple,September	7
	verystrong	trèsforte	sehrstark	muyfuerte	Ontario	9
<b>6. (b)</b>	<b>Current season's cane:anthocyanin coloration</b>	<b>Jeunecanne: pigmentation anthocyanique</b>	<b>DiesjährigeRute: Anthocyanfärbung</b>	<b>Ramadelaestación encurso: pigmentación antociánica</b>		
<b>QN</b>	absentorveryweak	nulleoutrèsfaible	fehlendodersehr gering	ausenteomuydébil	Chiliwak,GoldenBliss	1
	weak	faible	gering	débil	MallingLeo,Tulameen	3
	medium	moyenne	mittel	media	MallingOrion	5
	strong	forte	stark	fuerte	RodeRadboud,Rubaca	7
<b>7. (b)</b>	<b>Current season's cane:lengthof internode</b>	<b>Jeunecanne: longueurde l'entre-nœud</b>	<b>DiesjährigeRute: Internodienlänge</b>	<b>Ramadelaestación encurso:longitud delentrenudo</b>		
<b>QN</b>	short	court	kurz	corto	Zefa3	3
	medium	moyen	mittel	medio	Rusilva,Zefa 2	5
	long	long	lang	largo	Caliber,MallingJoy	7
<b>8. (b)</b> <b>(+)</b>	<b>Current season's cane:lengthof vegetativebud</b>	<b>Jeunecanne: longueurdel'œilà bois</b>	<b>DiesjährigeRute: Längeder vegetativenKnospe</b>	<b>Ramadelaestación encurso:longitud delayemadede madera</b>		
<b>QN</b>	short	court	kurz	corta	Wilkran	3
	medium	moyen	mittel	media	Veten	5
	long	long	lang	larga	BaronnedeWavre, Phyllis King	7



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>9. (*)</b>	<b><u>Varieties which fruit on previous year's cane in summer: Dormant cane: length</u></b>	<b><u>Variétés dont la récolte est sur la canne de l'année précédente en été : Cannedorm ante: longueur</u></b>	<b><u>Sorten, die an der Vorjahresrute im Sommerfruchten : Winterrute: Länge</u></b>	<b><u>Variedades que fructifican en verano en la rama del año anterior : Ramal atente: longitud</u></b>		
<b>QN</b>	short	courte	kurz	corta	Loganlike	3
	medium	moyenne	mittel	media	Zefa2	5
	long	longue	lang	larga	Meeker, Schönemann	7
<b>10. (b) (*)</b>	<b><u>Varieties which fruit on previous year's cane in summer: Current season's cane: length</u></b>	<b><u>Variétés dont la récolte est sur la canne de l'année précédente en été : Cannedel'année: longueur</u></b>	<b><u>Sorten, die an der Jahresrute im Herbstfruchten : Jahresrute: Länge</u></b>	<b><u>Variedades que fructifican en verano en la rama del año anterior : Rama de la estación en curso: longitud</u></b>		
<b>QN</b>	short	courte	kurz	corta	OrangeMarie	3
	medium	moyenne	mittel	media	Dinkum	5
	long	longue	lang	larga	Watson	7
<b>11. (*) (+)</b>	<b><u>Varieties which fruit on previous year's cane in summer: Dormant cane: color</u></b>	<b><u>Variétés dont la récolte est sur la canne de l'année précédente en été : Cannedormante: couleur</u></b>	<b><u>Sorten, die an der Vorjahresrute im Sommerfruchten : Winterrute: Farbe</u></b>	<b><u>Variedades que fructifican en verano en la rama del año anterior : Ramal atente: color</u></b>		
<b>PQ</b>	brownishgrey	gris brunâtre	bräunlichgrau	gris parduzco	MallingLeo, Schönemann	1
	greyishbrown	brun grisâtre	graubraun	marrón grisáceo	MallingOrion	2
	brown	brun	braun	marrón	Caliber, GlenCova	3
	purplishbrown	brun pourpre	purpurbraun	marrón violáceo	Festival, MallingLandmark	4
	brownishpurple	pourpre brunâtre	bräunlichpurpur	púrpura parduzco	Royalty, Titan	5
<b>12. (c) (*)</b>	<b><u>Spines: presence</u></b>	<b><u>Épines: présence</u></b>	<b><u>Stacheln: Vorhandensein</u></b>	<b><u>Espinas: presencia</u></b>		
<b>QL</b>	absent	absentes	fehlend	ausentes	GlenMoy	1
	present	présentes	vorhanden	presentes	MallingPromise	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>13. (c) (*)</b>	<b><u>Varieties with spines present only: Spines: density</u></b>	<b><u>Variétés avec épines seulement: Épines: densité</u></b>	<b><u>Nur Sorten mit Stacheln: Stacheln: Dichte</u></b>	<b><u>Sólo variedades con espinas: Espinas: densidad</u></b>		
<b>QN</b>	sparse	lâche	locker	escasa	Malling Orion, Rafz mach, Spica	3
	medium	moyenne	mittel	media	Multiraspa, Zefa 2	5
	dense	dense	dicht	densa	Autumn Bliss, Malling Exploit	7
<b>14. (c)</b>	<b><u>Varieties with spines present only: Spines: size of base</u></b>	<b><u>Variétés avec épines seulement: Épines: taille de la base</u></b>	<b><u>Nur Sorten mit Stacheln: Stacheln: Größe der Basis</u></b>	<b><u>Sólo variedades con espinas: Espinas: tamaño de la base</u></b>		
<b>QN</b>	very small	très petite	sehr klein	muy pequeña	Reveille	1
	small	petite	klein	pequeña	Pujallup, Resa	3
	medium	moyenne	mittel	media	Gevalo, Malling Exploit	5
	large	grande	groß	grande	Autumn Bliss, Köstliche Selita	7
	very large	très grande	sehr groß	muy grande	Malling Landmark, Matterhorn	9
<b>15. (c)</b>	<b><u>Varieties with spines present only: Spines: length</u></b>	<b><u>Variétés avec épines seulement: Épines: longueur</u></b>	<b><u>Nur Sorten mit Stacheln: Stacheln: Länge</u></b>	<b><u>Sólo variedad de con espinas: Espinas: longitud</u></b>		
<b>QN</b>	short	courtes	kurz	cortas	Gigant, Malling Delight, Vetén	3
	medium	moyennes	mittel	medias	Malling Leo	5
	long	longues	lang	largas	Malling Exploit, Meeker	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>16. (c)</b>	<b><u>Varieties with spines present only:</u> Spines: color</b>	<b><u>Variétés avec épines seulement:</u> Épines: couleur</b>	<b><u>Nur Sorten mit Stacheln:</u> Stacheln: Farbe</b>	<b><u>Sólo variedades con espinas:</u> Espinas: color</b>		
<b>PQ</b>	green	vert	grün	verde	GoldenBliss, MallingDelight	1
	brownishgreen	vertbrunâtre	bräunlichgrün	verdeparduzco	MallingLandmark	2
	greenishbrown	brunverdâtre	grünlichbraun	marrónverdoso	RodeRadboud,Watson	3
	brown	brun	braun	marrón	MallingOrion,Spica	4
	purplishbrown	brunpourpre	purpurbraun	marrónvioláceo	MallingLeo,Pujallup	5
	brownishpurple	pourprebrunâtre	bräunlichpurpur	púrpuraparduzco	Resa,Tulameen	6
	purple	pourpre	purpur	púrpura	Sirius,Veten,Zefa3	7
<b>17. (d) (*)</b>	<b>Leaf:greencolor of upper side</b>	<b>Feuille:couleur vertedelaface supérieure</b>	<b>Blatt:Grünfärbung derOberseite</b>	<b>Hoja:colorverde delhaz</b>		
<b>QN</b>	light	légère	hell	claro	Watson,Skeena	3
	medium	moyenne	mittel	medio	MallingOrion	5
	dark	foncée	dunkel	oscuro	MallingLandmark,Resa, Rubaca	7
<b>18. (d) (*)</b>	<b>Leaf:predominant number of leaflets</b>	<b>Feuille:nombre prédominant de folioles</b>	<b>Blatt:vorwiegende Anzahl Fiederblätter</b>	<b>Hoja:número predominante de folíolos</b>		
<b>PQ</b>	three	trois	drei	tres	Veten, Zefa3	1
	equallythreeand five	parfoistrais,parfois cinq	gleichenteilsdreiund fünf	tantotrescomocinco	MallingExploit, Multiraspa,Sirius	2
	five	cinq	fünf	cinco	Ontario,Pujallup,R usilva	3
<b>19. (d)</b>	<b>Leaf:profile of leaflets in cross section</b>	<b>Feuille:profil des folioles en section transversale</b>	<b>Blatt:Profil der Fiederblättchen im Querschnitt</b>	<b>Hoja:perfil de los folíolos en sección transversal</b>		
<b>QN</b>	concave	concaves	konkav	cóncavo	GlenClova,GlenMoy	1
	straight	droites	eben	plano	Gevalo	2
	convex	convexes	konvex	convexo	Gigant	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>20. (d) Leaf:rugosity (* )</b>	<b>Feuille:rugosité</b>	<b>Blatt:Runzeligkeit</b>	<b>Hoja:rugosidad</b>			
<b>QN</b>	veryweak	trèsfaible	sehrgering	muydébil	Heritage,Watson	1
	weak	faible	gering	débil	Rusilva	3
	medium	moyenne	mittel	media	Caliber,Malling Landmark,Pujallup	5
	strong	forte	stark	fuerte	MallingExploit,Spica	7
	verystrong	trèsforte	sehrstark	muyfuerte	Korbfüller	9
<b>21. (d) Leaf:relative positionoflateral leaflets (+ )</b>	<b>Feuille:position relativedesfolioles latérales</b>	<b>Blatt:relative Stellungder seitlichen Fiederblättchen</b>	<b>Hoja:posición relativadelos folíoloslaterales</b>			
<b>QN</b>	free	disjointes	freistehend	libres	Willamette	1
	touching	tangentes	einanderberührend	encontacto	MallingOrion	2
	overlapping	chevauchantes	überlappend	solapados	Gigant,Resa,Rumiloba	3
<b>22. (d) Terminalleaflet: length</b>	<b>Folioleterminale: longueur</b>	<b>Endfieder:Länge</b>	<b>Folíolosuperior: longitud</b>			
<b>QN</b>	short	courte	kurz	corto	Royalty	3
	medium	moyenne	mittel	medio	NorfolkGiant,Wilkran	5
	long	longue	lang	largo	MallingJoy	7
<b>23. Terminalleaflet: width</b>	<b>Folioleterminale: largeur</b>	<b>Endfieder:Breite</b>	<b>Folíolosuperior: anchura</b>			
<b>QN</b>	narrow	étroite	schmal	estrecho	Rusilva	3
	medium	moyenne	mittel	medio	Zefa2	5
	broad	large	breit	ancho	GlenAmple	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>24.</b>	<b>Pedice:l:numero of spines</b>	<b>Pédicelle:nombre d'épines</b>	<b>Blütenstiel:Anzahl Stacheln</b>	<b>Pedice:l:nú mero de espinas</b>		
<b>QN</b>	absent or very few	nul ou très petit	fehlend oder sehr gering	nul o muy bajo	Glen Ample	1
	few	petit	gering	bajo	Multiraspa, Pechts Gigant	3
	medium	moyen	mittel	medio	Glen Clova, Malling Leo	5
	many	grand	hoch	alto	Malling Jo y, Orange Marie	7
	very many	très grand	sehr hoch	muy alto	Ariadne, Golden Bliss	9
<b>25. (*)</b>	<b>Peduncle: presence of anthocyanin coloration</b>	<b>Pédoncule: présence de pigmentation anthocyanique</b>	<b>Blütenstandstiel: Vorhandensein von Anthocyanfärbung</b>	<b>Pedúnculo: presencia de pigmentación antocianica</b>		
<b>QL</b>	absent	absente	fehlend	ausente	Gelbe Antwerpener, Golden Bliss	1
	present	présente	vorhanden	presente	Willamette	9
<b>26. (*)</b>	<b>Peduncle: intensity of anthocyanin coloration</b>	<b>Pédoncule: intensité de la pigmentation anthocyanique</b>	<b>Blütenstandstiel: Intensität der Anthocyanfärbung</b>	<b>Pedúnculo: intensidad de pigmentación antocianica</b>		
<b>QN</b>	very weak	très faible	sehr gering	muy débil	Julia, Rumilo	1
	weak	faible	gering	débil	Joan Squire, Malling Delight	3
	medium	moyenne	mittel	media	Gevalo, Pujallup	5
	strong	forte	stark	fuerte	Loganlike, Willamette	7
	very strong	très forte	sehr stark	muy fuerte	Rafz mach	9
<b>27. (f)</b>	<b>Flower: size</b>	<b>Fleur: taille</b>	<b>Blüte: Größe</b>	<b>Flor: tamaño</b>		
<b>QN</b>	small	petite	klein	pequeña	Ontario	3
	medium	moyenne	mittel	media	Rucami, Spica	5
	large	grande	groß	grande	Gevalo, Isabel	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>28. (f)</b>	<b><u>Varieties which fruit on previous year's cane in summer:</u> Fruiting lateral: attitude</b>	<b><u>Variétés dont la récolte est sur la canne de l'année précédente en été :</u> Rameau fructifère: port</b>	<b><u>Sorten, die an der Vorjahresrute im Sommer fruchten :</u> Fruchtender Trieb: Haltung</b>	<b><u>Variedades que fructifican en la rama del año anterior en verano :</u> Fructificación lateral: porte</b>		
<b>QN</b>	erect	dressé	aufrecht	erecto	Malling Landmark, Ontario	1
	semi-erect	demi dressé	halbaufrecht	semirecto	Schönemann	2
	horizontal to drooping	horizontal à retombant	waagrecht bis hängend	horizontal a colgante	Rucami	3
<b>29. (f) (*)</b>	<b><u>Varieties which fruit on previous year's cane in summer:</u> Fruiting lateral: length</b>	<b><u>Variétés dont la récolte est sur la canne de l'année précédente en été :</u> Rameau fructifère: longueur</b>	<b><u>Sorten, die an der Vorjahresrute im Sommer fruchten :</u> Fruchtender Trieb: Länge</b>	<b><u>Variedades que fructifican en la rama del año anterior en verano :</u> Fructificación lateral: longitud</b>		
<b>QN</b>	very short	très court	sehr kurz	muycorta	Galante, Glen Moy	1
	short	court	kurz	corta	Multiraspa, Rafz mach	3
	medium	moyen	mittel	media	Gradina, Tulameen	5
	long	long	lang	larga	Meeker	7
	very long	très long	sehr lang	muylarga	Malling Joy, Malling Leo	9
<b>30. (e) (*) (f)</b>	<b>Fruit: length</b>	<b>Fruit: longueur</b>	<b>Frucht: Länge</b>	<b>Fruto: longitud</b>		
<b>QN</b>	short	court	kurz	corto	Malling Promise, Ontario	3
	medium	moyen	mittel	medio	Rafz mach	5
	long	long	lang	largo	Malling Delight	7
<b>31. (e) (*) (f)</b>	<b>Fruit: width</b>	<b>Fruit: largeur</b>	<b>Frucht: Breite</b>	<b>Fruto: anchura</b>		
<b>QN</b>	narrow	étroit	schmal	estrecho	Haida	3
	medium	moyen	mittel	medio	Meeker, Schönemann	5
	broad	large	breit	ancho	Glen Ample	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>32. (*)(f)</b>	<b>Fruit:ratio length/ width</b>	<b>Fruit:rapport longueur/largeur</b>	<b>Frucht:Verhältnis Länge/Breite</b>	<b>Fruto:relación longitud/anchura</b>		
<b>QN</b>	small	petit	klein	pequeña	Caliber,Zefa2	3
	medium	moyen	mittel	media	GlenClova,Rafzeter	5
	large	grand	groß	grande	MallingDelight,Tulameen	7
<b>33. (*)(+)(f)</b>	<b>Fruit:general shapeinlateral view</b>	<b>Fruit:forme généraleen vue latérale</b>	<b>Frucht:allgemeine Forminder Seitenansicht</b>	<b>Fruto:forma generalen perspectivalateral</b>		
<b>PQ</b>	circular	circulaire	rund	circular	MallingLandmark, Ontario	1
	broadconical	coniquelarge	breitkonisch	cónicaancha	MallingOrion,Meeker	2
	conical	conique	konisch	cónica	Annamaria,Rafzmach	3
	trapezoidal	trapézoïdal	trapezförmig	trapezoidal	Gradina	4
<b>34. (*)(f)</b>	<b>Fruit:sizeofsingle drupe</b>	<b>Fruit:taille d'une drupesimple</b>	<b>Frucht:Größeder Einzelsteinfrucht</b>	<b>Fruto:tamaño de la drupa</b>		
<b>QN</b>	small	petite	klein	pequeña	MallingAdmiral,Polana	3
	medium	moyenne	mittel	media	AutumnBliss, Malling Orion	5
	large	grande	groß	grande	Dinkum,Festival,Rafzeter	7
<b>35. (*)(f)</b>	<b>Fruit:color</b>	<b>Fruit:couleur</b>	<b>Frucht:Farbe</b>	<b>Fruto:color</b>		
<b>PQ</b>	yellow	jaune	gelb	amarillo	GelbeAntwerpener, GoldenBliss	1
	orange	orange	orange	naranja	OrangeMarie	2
	lightred	rougeclair	hellrot	rojoclaro	MallingDelight	3
	mediumred	rougemoyen	mittelrot	rojomedio	GlenClova,Malling Orion	4
	darkred	rougefoncé	dunkelrot	rojooscuro	Gigant,Schönemann, Zefa2	5
	purple	pourpre	purpur	púrpura	Royalty	6
	darkpurple	pourprefoncé	dunkelpurpur	púrpuraoscuro	DeepPurple	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>36.</b>	<b>(e) Fruit:glossiness</b> <b>(f)</b>	<b>Fruit:brillance</b>	<b>Frucht:Glanz</b>	<b>Fruto:brillo</b>		
<b>QN</b>	weak	faible	gering	débil	Gigant,Rumilo	3
	medium	moyenne	mittel	medio	Comox	5
	strong	forte	stark	fuerte	Rafzmach,Tulameen	7
	verystrong	trèsforte	sehrstark	muyfuerte	Resa	9
<b>37.</b>	<b>(e) Fruit:firmness</b> <b>(*) (f)</b>	<b>Fruit:fermeté</b>	<b>Frucht:Festigkeit</b>	<b>Fruto:firmeza</b>		
<b>QN</b>	verysoft	trèsmou	sehrweich	muyblando	Caliber,Malling Delight	1
	soft	mou	weich	blando	Gigant,Malling Landmark	3
	medium	moyen	mittel	medio	GlenClova, Malling Promise	5
	firm	ferme	fest	firme	Tulameen	7
	veryfirm	trèsferme	sehrfest	muyfirme	GlenProsen	9
<b>38.</b>	<b>(e) Fruit:adherence</b> <b>(f) top/ug</b>	<b>Fruit:adhérenceau</b> <b>réceptacle</b>	<b>Frucht:Haftenam</b> <b>Zapfen</b>	<b>Fruto:adherenciaal</b> <b>receptáculo</b>		
<b>QN</b>	veryweak	trèsfaible	sehrgering	muydébil	Nootka	1
	weak	faible	gering	débil	Rumilo,Zefa2	3
	medium	moyenne	mittel	media	GlenClova,Meeker	5
	strong	forte	stark	fuerte	MallingDelight	7
	verystrong	trèsforte	sehrstark	muyfuerte	MallingLandmark	9
<b>39.</b>	<b>(e) Fruit:main</b> <b>(*) (f) bearingtype</b>	<b>Fruit:principaltype</b> <b>derécolte</b>	<b>Frucht:Haupterte</b> <b>nte</b>	<b>Fruto:principaltipo</b> <b>deproducción</b>		
<b>PQ</b>	onlyonprevious year'scanein summer	seulementsurla cannedel'année précédenteenété	nurander Vorjahresruteim Sommer	solamenteenlarama delañoanterioren verano	MallingPromise	1
	bothonprevious year'scanein summerandon currentyear'scane inautumn	àlafaissurlacanne del'annéeprécédente enétéetsurlajeune canneenautomne	sowohl ander Vorjahresruteim Sommeralsauchan derJahresruteim Herbst	tantoenlaramadel añoanterioren veranocomoenla ramadelañoencurso enotoño	Isabel	2
	onlyoncurrent year'scanein autumn	seulementsurlajeune canneenautomne	nuranderJ ahresrute imHerbst	solamenteenlarama delañoencursoen otoño	AutumnBliss	3



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
40. (* (+)	<u>Varieties which fruit on previous year's cane in summer: Plant: time of vegetative budburst</u>	<u>Variétés dont la récolte est sur la cane de l'année précédente en été: Plante: époque de débourrement</u>	<u>Sorten, die an der Vorjahresrute im Sommerfruchten: Pflanze: Zeitpunkt des Aufbruchs der vegetativen Knospe</u>	<u>Variedades que fructifican en la ramada del año anterior en verano: Planta: época de aparición de la yema de madera</u>		
QN	early	précoce	früh	temprana	Glen Moy, Malling Promise	3
	medium	moyenne	mittel	media	Delmes, Glen Clova	5
	late	tardive	spät	tardía	Malling Orion, Multiraspa	7
	very late	très tardive	sehr spät	muy tardía	Malling Joy	9
41. (* (+)	<u>Varieties which fruit on current year's cane in autumn: Time of cane emergence</u>	<u>Variétés dont la récolte est sur la jeune canne en automne: Début de la croissance de la cane</u>	<u>Sorten, die an der Jahresrute im Herbstfruchten: Beginn des Triebwachstums</u>	<u>Variedades que fructifican en la ramada del año en curso en otoño: Época de emergencia de la rama</u>		
QN	early	précoce	früh	temprana	Polana	3
	medium	moyenne	mittel	media	Autumn Bliss	5
	late	tardive	spät	tardía	Watson	7
42. (f) (* (+)	<u>Varieties which fruit on previous year's cane in summer: Time of beginning of flowering on previous year's cane</u>	<u>Variétés dont la récolte est sur la cane de l'année précédente en été: Époque du début de la floraison sur la cane de l'année précédente</u>	<u>Sorten, die an der Vorjahresrute im Sommerfruchten: Zeitpunkt des Blühbeginns an der Vorjahresrute</u>	<u>Variedades que fructifican en la ramada del año anterior en verano: Época de comienzo de la floración en la ramada del año anterior</u>		
QN	very early	très précoce	sehr früh	muy temprana	Glen Moy, Rafz mach	1
	early	précoce	früh	temprana	Gevallo, Willamette	3
	medium	moyenne	mittel	media	Rumiloba, Skeena	5
	late	tardive	spät	tardía	Glen Prosen	7
	very late	très tardive	sehr spät	muy tardía	Malling Joy, Malling Leo	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
<b>43.</b>	<b>(f)</b> <u>Varieties which fruit on current year's cane in autumn:</u> Time of beginning of flowering on current season's cane	<b>Variétés dont la récolte est sur la jeune canne en automne:</b> Époque du début de la floraison sur la jeune canne	<b>Sorten, die an der Jahresrute im Herbstfruchten:</b> Zeitpunkt des Blühbeginns an der Jahresrute	<b>Variedades que fructifican en la ramada del año en curso</b>		
<b>QN</b>	very early	très précoce	sehr früh	muy temprana	Ariadne	1
	early	précoce	früh	temprana	Autumn Bliss	3
	medium	moyenne	mittel	media	Orange Marie	5
	late	tardive	spät	tardía	Watson	7
	very late	très tardive	sehr spät	muy tardía	September	9
<b>44.</b>	<b>(f)</b> <u>Varieties which fruit on previous year's cane in summer:</u> Time of beginning of fruit ripening on previous year's cane	<b>Variétés dont la récolte est sur la canne de l'année précédente en été:</b> Époque du début de maturité des fruits sur la canne de l'année précédente	<b>Sorten, die an der Vorjahresrute im Sommerfruchten:</b> Zeitpunkt des Beginns der Frucht reife an der Vorjahresrute	<b>Variedades que fructifican en la ramada del año anterior</b>		
<b>QN</b>	very early	très précoce	sehr früh	muy temprana	Vene	1
	early	précoce	früh	temprana	Glen Clova, Glen Moy, Rafz mach	3
	medium	moyenne	mittel	media	Rusilva, Willamette	5
	late	tardive	spät	tardía	Malling Landmark, Schönemann	7
	very late	très tardive	sehr spät	muy tardía	Malling Leo	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
45	(f) <u>Varieties which fruit on current year's cane in autumn:</u> Time of beginning of fruit ripening on current year's cane	<u>Variétés dont la récolte est sur la jeune canne en automne:</u> Époque du début de maturité des fruits sur la jeune canne	<u>Sorten, die an der Jahresrute im Herbstfruchten:</u> Zeitpunkt des Beginns der Frucht reife an der Jahresrute	<u>Variedades que fructifican en la ramadelaño en curso en otoño:</u> Época de comienzo de madurez del fruto en la ramadelaño en curso		
QN	very early	très précoce	sehr früh	muy temprana	Ariadne	1
	early	précoce	früh	temprana	Polana	3
	medium	moyenne	mittel	media	Orange Marie, Watson	5
	late	tardive	spät	tardía	Korbfüller	7
	very late	très tardive	sehr spät	muy tardía	Baronne de Wavre	9
46.	(f) <u>Varieties which fruit on previous year's cane in summer:</u> Length of fruiting period on previous year's cane	<u>Variétés dont la récolte est sur la canne de l'année précédente en été:</u> Longueur de la période de récolte sur la canne de l'année précédente	<u>Sorten, die an der Vorjahresrute im Sommerfruchten:</u> Dauer der Ernteperiode an der Vorjahresrute	<u>Variedades que fructifican en la ramadelaño anterior en verano:</u> Duración del período de fructificación en la ramadelaño anterior		
QN	short	courte	kurz	corto	Glen Moy	3
	medium	moyenne	mittel	medio	Glen Clova	5
	long	longue	lang	largo	Schönemann	7
47.	(f) <u>Varieties which fruit on current year's cane in autumn:</u> Length of fruiting period on current year's cane	<u>Variétés dont la récolte est sur la jeune canne en automne:</u> Longueur de la période de récolte sur la jeune canne	<u>Sorten, die an der Vorjahresrute im Sommerfruchten:</u> Dauer der Ernteperiode an der Vorjahresrute	<u>Variedades que fructifican en la ramadelaño en curso en otoño:</u> Duración del período de fructificación en la rama del año en curso		
QN	short	courte	kurz	corto	Bohème	3
	medium	moyenne	mittel	medio	Autumn Bliss, Heritage	5
	long	longue	lang	largo	Polana	7

## 8. ExplanationsontheTableofCharacteristics

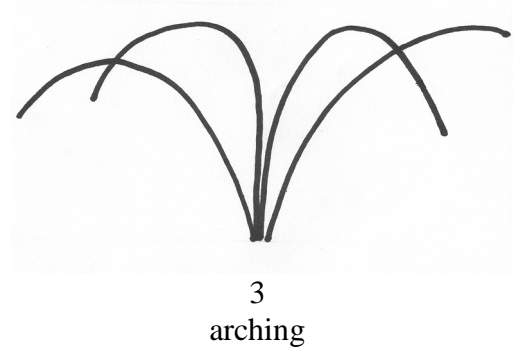
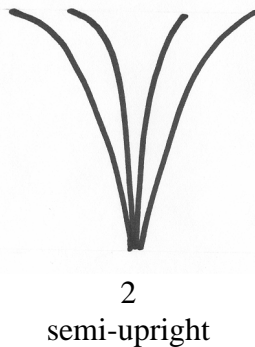
### 8.1 *Explanationscoveringseveralcharacteristics*

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

- (a) Very young shoot : Observations on the very young shoot should be made when the shoots are about 15 cm long.
- (b) Current season's cane : Observations on the current season's cane should be made when the cane is about 1 m to 1.50 m long. For summer bearing varieties, these observations should be made just after harvest, for autumn bearing ones just before or at harvest. The bloom of the current season's cane should only be observed when fully grown.
- (c) Spine: Observations on spines should be made in the middle third of the current season's cane, when the cane is about 1 m to 1.50 m long.
- (d) Leaf: Observations on the leaf should be made on fully developed leaves from the middle third of the cane.
- (e) Fruit: Observations on the fruit should be made on fruit picked during the second and third harvest.
- (f) Flower/fruit/length of the fruiting period : Observations on the flower and the fruit, as well as the length of the fruiting period, should be recorded from the summer harvest at the fruiting laterals only, except for varieties whose main fruiting is on the current year's cane in autumn. For these varieties, observations should be made during the autumn fruiting period.

### 8.2 *Explanationforindividualcharacteristics*

#### Ad.1:Plant:habit



Ad.2:Plant:numberofcurrentseason'sshoots

The number of current season's shoots should be considered as the number per meter length of the row before thinning for the first time observed in the beginning of the second year.

Ad.8:Currentseason'scane:lengthofvegetativebud

Observations on the vegetative bud should be made in the middle third of the cane.



3  
short



5  
medium

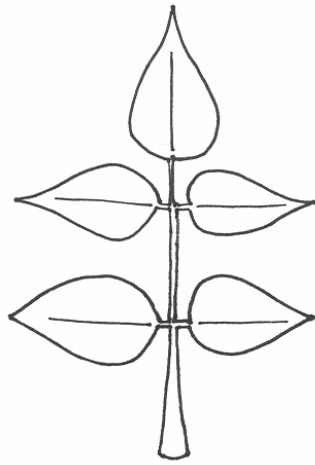


7  
long

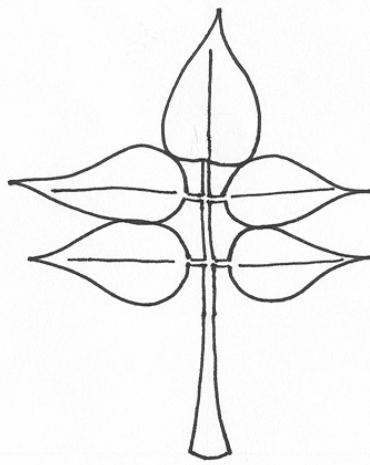
Ad.11:Varietieswhichfruitonpreviousyear'scaneinsummer:Dormantcane:color

If the canes peel, the dominant color should be the color of the bark in an unpeeled area.

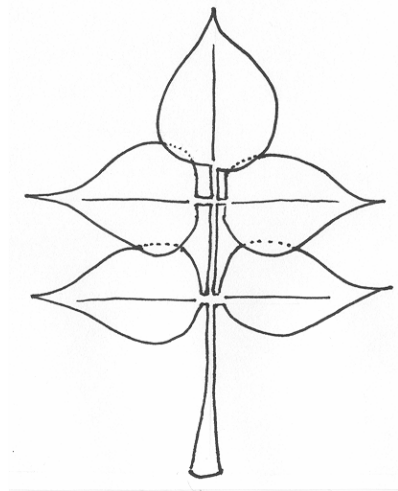
Ad.21:Leaf:relativepositionoflateralleaflets



1  
free



2  
touching



3  
overlapping

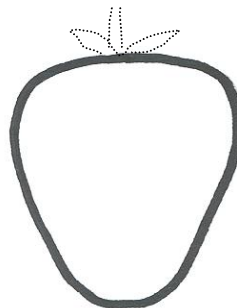
Ad.33:Fruit:generalshapeinlateralview



1  
circular



2  
broadconical



3  
conical



4  
trapezoidal

Ads.40,42,44,46: Varieties which fruit on previous year's cane in summer \_\_\_\_\_:

Plant:time of vegetative budburst(40); \_\_\_\_\_

Time of beginning of flowering on previous year's cane(42); \_\_\_\_\_

Time of beginning of fruit ripening on previous year's cane(44); \_\_\_\_\_

Length of fruiting period on previous year's cane(46) \_\_\_\_\_

These characteristics apply to all varieties which either fruit on previous year's cane in summer only, or which fruit both on previous year's cane in summer and on current year's cane in autumn.

Ads.41,43,45,47: Varieties which fruit on current year's cane in autumn:  
Time of cane emergence(41);  
Time of beginning of flowering on current season's cane(43);  
Time of beginning of fruit ripening on current year's cane(45);  
Length of fruiting period on current year's cane(47)

These characteristics apply to all varieties which either fruit both on previous year's cane in summer and on current year's cane in autumn or which fruit on current year's cane in autumn only.

Ad.42: Time of beginning of flowering

The time of beginning of flowering should be considered as the time when 10% of the flowers have opened.

Ad.44: Time of beginning of fruit ripening

The time of fruit ripening should be considered as the time of eating ripeness, when the fruit is most easily removed from the plug.

9. Literature

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Leemans, I.A., Nannenga, E.T., 1957: "Raspberry Varieties", Instituut voor de Veredeling van Tuinbouwgewassen (IVT), Wageningen, Netherlands.

Sorge, P., 1984: "Beerenobstsorten", Verlag J. Neumann - Neudamm, Melsungen, Germany.



10. Technical Questionnaire

TECHNICALQUESTIONNAIRE	Page {x} of {y}	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights		
1. Subject oftheTechnicalQuestionnaire		
1.1 LatinName	<input type="text" value="Rubusidaeus L."/>	
1.2 CommonName	<input type="text" value="Raspberry"/>	
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:
<p>4. Informationonthebreedingschemeandpropagationofthevariety</p>		
<p>4.1 BreedingScheme</p>		
<p>Varietyresultingfrom:</p>		
<p>4.1.1 Crossing</p>		
(a) controlledcross (pleasestateparentvarieties)		<input type="checkbox"/>
(b) partiallyunknowncross (pleasestateknownparentvariety(ies))		<input type="checkbox"/>
(c) totallyunknowncross		<input type="checkbox"/>
4.1.2 Mutation (pleasestateparentvariety)		<input type="checkbox"/>
4.1.3 Discovery (pleasestatewhere,whenandhowdeveloped)		<input type="checkbox"/>
4.1.4 Other (pleaseprovidedetails)		<input type="checkbox"/>
<p>4.2 MethodofPropagatingtheVariety</p>		
<p>4.2.1 Vegetativepropagation</p>		
(a) <i>invitro</i> propagation		<input type="checkbox"/>
(b) other(e.g.leafcutting,hardwoodcutting,layer) (statemethod)		<input type="checkbox"/>
4.2.2 Seed		<input type="checkbox"/>
4.2.3 Other (pleaseprovidedetails)		<input type="checkbox"/>
<p>4.3 Virusstatus</p>		
4.3.1 Thevarietyisfreefromallknownvirusesasfollows: (indicatefromwhichviruses)		<input type="checkbox"/>
4.3.2 Theplantmaterialisvirustested: (indicateagainstwhichviruses)		<input type="checkbox"/>
4.3.3 Thevirusstatusisunknown		<input type="checkbox"/>

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 note which best corresponds).

Characteristics	Example Varieties	Note
<b>5.1 Plant: number of current season's shoots</b> (2)		
few	Rubaca, Rucami	3[]
medium	Glen Ample, Multiraspa, Rumiloba	5[]
many	Glen Clova, Skeena	7[]
very many	Sumner	9[]
<b>5.2 Very young shoot: anthocyanin coloration of apex during rapid growth</b> (3)		
absent	Gelbe Antwerpener	1
present	Malling Promise	9
<b>5.3 Varieties which fruit on previous year's cane in summer</b> (11) <b>Dormant cane: color</b>		
brownish grey	Malling Leo, Schönemann	1[]
greyish brown	Malling Orion	2[]
brown	Caliber, Glen Cova	3[]
purplish brown	Festival, Malling Landmark	4[]
brownish purple	Royalty, Titan	5[]
<b>5.4 Spines: presence</b> (12)		
absent	Glen Moy	1[]
present	Malling Promise	9[]
<b>5.5 Fruit: ratio length/width</b> (32)		
small	Caliber, Zefa2	3[]
medium	Glen Clova, Rafzeter	5[]
large	Malling Delight, Tulameen	7[]

TECHNICALQUESTIONNAIRE	Page { x } of { y }	ReferenceNumber:	
Characteristics	ExampleVarieties	Note	
<b>5.6 Fruit:generalshapeinlateralview (33)</b>			
circular	MallingLandmark,Ontario	1[]	
broadconical	MallingOrion,Meeker	2[]	
conical	Annamaria,Rafzmach	3[]	
trapezoidal	Gradina	4[]	
<b>5.7 Fruit:color (35)</b>			
yellow	GelbeAntwerpener,GoldenBliss	1[]	
orange	OrangeMarie	2[]	
lightred	MallingDelight	3[]	
mediumred	GlenClova,MallingOrion	4[]	
darkred	Gigant,Schönemann,Zefa2	5[]	
purple	Royalty	6[]	
darkpurple	DeepPurple	7[]	
<b>5.8 Fruit:mainbearingtype (39)</b>			
onlyonpreviousyear'scaneinsummer	MallingPromise	1[]	
bothon previousyear'scaneinsummerand oncurrentyear'scaneinautumn	Isabel	2[]	
onlyoncurrentyear'scaneinautumn	AutumnBliss	3[]	
<b>5.9 Varietieswhichfruitonpreviousyear'scaneinsummer : (44) Timeofbeginningoffruitripeningonpreviousyear'scane</b>			
veryearly	Vene	1[]	
early	GlenClova,GlenMoy,Rafzmach	3[]	
medium	Rusilva,Willamette	5[]	
late	MallingLandmark,Schönemann	7[]	
verylate	MallingLeo	9[]	



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>7. Additional information which may help in the examination of the variety</p> <p>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?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(If yes, please provide details)</p> <p>7.2 Special conditions for the examination of the variety</p> <p>7.2.1 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>7.2.2 If yes, please give details:</p> <p>7.3 Other information</p> <p>A representative color photograph of the variety should accompany the Technical Questionnaire.</p>		
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(b) Has such authorization been obtained?</p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>		
<p>9. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <p>Applicant's name <input type="text"/></p> <p>Signature <input type="text"/> Date <input type="text"/></p>		