

TG/51/7(proj.1) Rev. ORIGINAL: English DATE: 2009-09-11

## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA



#### **GOOSEBERRY**

UPOV Code: RIBES\_UVA

Ribes uva-crispa L.

#### **GUIDELINES**

### FOR THE CONDUCT OF TESTS

### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Germany

to be considered by the Technical Working Party for Fruit Crops at its fortieth session, to be held in Angers, France, from September 21 to 25, 2009

### Alternative Names:\*

Botanical name	English	French	German	Spanish
Ribes uva-crispa L.	Gooseberry		Stachelbeere	

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

### ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

<sup>\*</sup> 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.]

# TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 2 -

TA	ABLE OF CONTENTS	PAGE
1.	SUBJECT OF THESE TEST GUIDELINES	3
2.	MATERIAL REQUIRED	
3.	METHOD OF EXAMINATION	
٥.	3.1 Number of Growing Cycles	
	3.2 Testing Place	
	3.3 Conditions for Conducting the Examination	
	3.4 Test Design	
	3.5 Number of Plants / Parts of Plants to be Examined	
	3.6 Additional Tests	
4.	ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY	
т.	4.1 Distinctness	
	4.2 Uniformity	
	4.3 Stability	
5.	GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL	
6.	INTRODUCTION TO THE TABLE OF CHARACTERISTICS	
0.	6.1 Categories of Characteristics	
	6.2 States of Expression and Corresponding Notes	
	6.3 Types of Expression and Corresponding Procession	
	6.4 Example Varieties	
	6.5 Legend	
7.	TABLE OF CHARACTERISTICS/TABLEAU DES	
, .	CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES	7
8.	EXPLANATIONS ON THE TABLE OF CHARACTERISTICS	21
	8.1 Explanations covering several characteristics	21
	8.2 Explanations for individual characteristics	
	8.3 Synonyms of the example varieties	23
9.	LITERATURE	24
10	TECHNICAL OLIESTIONNAIDE	25

## 1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Ribes uva-crispa* L. and of varieties of hybrids between that species and other species as long as the latter varieties are similar to those of *Ribes uva-crispa* 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.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

## 5 plants (on own roots).

### SK, RO: agree.

- 2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 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 Number of Growing Cycles
- 3.1.1 The minimum duration of tests should normally be two independent growing cycles
- 3.1.2 The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds.

### 3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

- 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 In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles.
- 3.3.3 The recommended method of observing the characteristic is indicated by the following key in the second column of the Table of Characteristics:

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants

### 3.4 Test Design

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

3.5 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations should be made on 5 plants or parts taken from each of 5 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 differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

#### 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 are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
  - (a) Fruit: color (characteristic 33)
  - (b) Time of beginning of fruit ripening (characteristic 42)

### RO: agree.

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 Chapter 6.1.2
- QL: Qualitative characteristic see Chapter 6.3
- QN: Quantitative characteristic see Chapter 6.3
- PQ: Pseudo-qualitative characteristic see Chapter 6.3

MG, MS, VG, VS: See Chapter 3.3.3

- (a)-(g) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

## 7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1.	VG	Plant: vigor					
QN	(a)	very weak					1
		weak				Catherina	3
		medium				Hönings Früheste	5
		strong				Whinham's Industry	7
		very strong				Rochusbeere	9
				Mucurines' for state 7, is characteristic and the		te 9. ld be replaced by better kr	ıown
2.	VG	Plant: <del>density</del> height					
QN	(a)	<mark>very <del>sparse</del> short</mark>					1
		<mark>sparse</mark> short				<del>Spinefree</del>	3
		medium				<del>Lovett's Triumph</del> Rokula	5
		<del>dense</del> tall				Rochusbeere	7
		<mark>very <del>dense</del> tall</mark>				<del>Grüner Edelstein</del> Reflamba	9
RO, S	K: agr	ree to changes					
3. (*) (+)	VG	Plant: shape					
PQ	(a)	obovoid				Hönings Früheste	1
		globose				Runde Gelbe	2
		transverse ellipsoi	d			Ingelheimer Rote	3

PL: to add example variety 'Invicta' for state 2 and 'Remarka' for state 3.

NL: to add example varieties 'Golda', 'May Duke' and 'Pax' for state 1, to replace the existing example variety for state 2 by 'Invicta', to replace the existing variety for state 3 by 'Achilles'.

# TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 8 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
4. <del>-<mark>6.</mark></del>	VG	Plant: number of basal shoots					
QN	(a)	few				Whinham's Industry	3
		medium				Golden Lion	5
		many				Hönings Früheste	7
PL: to	add e	xample variety 'Kor	rsun' for state 3 an	nd 'Invicta' for state 7	•		
5. (*)	VG	One-year-old shoo attitude	t:				
QN	<b>(b)</b>	upright					1
		oblique				Hönings Früheste	2
		horizontal				Runde Gelbe	3
'Korsı	un' for	state 3.	Resistenta' and 'Ge	elbe Triumph' for stat	se 1, to add example v	variety 'Invicta' for state 2 a	nd
'Korsı	un' for		_	elbe Triumph' for stat	te 1, to add example v	variety 'Invicta' for state 2 a	nd
'Korsı RO, S	ın' for K: agr	ee to new wording.  One-year-old shoo	_	elbe Triumph' for stat	te 1, to add example v	variety 'Invicta' for state 2 a	<b>1</b>
'Korsı RO, S. 6.	un' for K: agr VG	One-year-old shoo curvation	_	elbe Triumph' for stat	te 1, to add example v		
'Korsı RO, S. 6.	un' for K: agr VG	One-year-old shoot curvation very weak	_	elbe Triumph' for stat	te 1, to add example v	Reverta	1
'Korsı RO, S. 6.	un' for K: agr VG	One-year-old shoo curvation very weak weak	_	elbe Triumph' for stat	te 1, to add example v	Reverta Whinham's Industry	1 3
'Korsı RO, S. 6.	un' for K: agr VG	One-year-old shoo curvation very weak weak medium	_	elbe Triumph' for stat	te 1, to add example v	Reverta Whinham's Industry Risulfa	1 3 5
'Korsı RO, S 6. QN PL: to Keltai	un' for K: agr VG (b)	One-year-old shoo curvation very weak weak medium strong very strong	t:			Reverta Whinham's Industry Risulfa Ingelheimer Rote	1 3 5 7 9
'Korsı RO, S 6. QN PL: to Keltai	vG  (b)  add e nen' fo	One-year-old shoo curvation  very weak  weak  medium  strong  very strong  example variety 'Role or state 7.	t:			Reverta Whinham's Industry Risulfa Ingelheimer Rote Lepac	1 3 5 7 9
'Korsı RO, S' 6. QN PL: to Keltai RO, S'	vG  (b)  add e nen' fo	One-year-old shoo curvation very weak weak medium strong very strong example variety 'Role or state 7. ree to new wording.	t:			Reverta Whinham's Industry Risulfa Ingelheimer Rote Lepac	1 3 5 7 9

# TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 9 -

Note Nota	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	español	deutsch	français	English		
				of	Shoot: number of single prickles	VG	8.
1	Redeva				nil or very few	<b>(b)</b>	QN
3	Rokula				few		
5	<b>Rolonda</b>				medium		
7	Remarka				many		
9					very many		
		e 9.	'Rzeszowski' for state	of	Shoot: number of double prickles		Keltain 9.
1					nil or very few	<b>(b)</b>	QN
3	<u>Invicta</u>				few		
5	Whinham's Industry				medium		
7	Reverta				many		
9					very many		
	ate 7.	variety 'Riversa' for st	and to add example v	'Remarka' for state 1	example variety 'R	have 6	PL: to
				of	Shoot: number of triple prickles	VG	10.
1					nil or very few	<b>(b)</b>	QN
3	Invicta				few		
5	Whinham's Industry				medium		
7	Reverta				many		
9					very many		
']	Whinham's Industry	Corsun' for state 1 and	inen', 'Invicta' and 'K		medium many very many		

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 10 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
11. (*)	<mark>∀G</mark>	Shoot: number of points of attachment of prickles					
<b>QN</b>	(b)	<del>very few</del>					1
		<del>few</del>		to be deleted	I		3
		<del>medium</del>					<u>5</u>
		<del>many</del>					<del>7</del>
		<mark>very many</mark>					<mark>9</mark>
NL, R	o, sk	agree to delete.					
12. (*)	VG	Shoot: number of points of attach- ment of prickles on upper third					
QN	<b>(b)</b>	very few					1
		few				Gelbe Triumph	3
		medium				Hönings Früheste	5
		many				Whinham's Industry	7
		very many					9
PL: to	have	example variety 'Rok	ula' for state 1 an	d to add example var	iety 'Hinnonmäen K	eltainen' for state 5.	
13.	VG	Shoot: number of bristles on upper third					
QN	<b>(b)</b>	nil or very few				Mai Duke	1
		few				Rote Orléans	3
		medium				Werdersche Frühe Mark	5
		many				Hönings Früheste	7
		very many					9
PL: to	add e	xample variety 'Weiß	se Triumph' for st	tate 1 and 'Invicta' fo	r state 5.		

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 11 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>14.</b>	<mark>VG</mark>	Bud: position in relation to shoot					
QN	<b>(b)</b>	adpressed				Whinham's Industry	1
		moderately held ou	<mark>t</mark>			Whitesmith	2
		strongly held out				Weiße Volltragende	3
		: agree to new char ''Vegetative bud:					
<b>15.</b>	<b>VG</b>	<b>Bud: size</b>					
QN	<b>(b)</b>	small					1
		medium					2
		large					3
NL: to	chan	ge into ''Vegetative	bud: length''; to h	ave 9 states instead of	f 3.		
<mark>16.</mark>	<b>VG</b>	Bud: shape of ape	<mark>x</mark>				
QN	<b>(b)</b>	narrow acute					1
		broad acute					2
		rounded					3
		agree to new chara "Vegetative bud:					
17. <mark>14.</mark> (*)	VG	Young shoot: anth cyanin coloration	10-				
QN	(c)	absent or very weal	K			Goliath	1
		weak				Whinham's Industry	3
		medium				Risulfa	5
		strong				Siloba	7
		very strong					9
PL: to	add e	xample variety 'Hir	nnonmäen Keltaine	en' for state 1, 'Invict	a' for state 3 and 'Ri	versa' for state 5.	

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 12 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18. <del>15.</del>	VG	Young leaf: green coloration	1				
QN	( <b>d</b> )	very light				Summersgold	1
		light				Mai Duke	3
		medium				Rote Frankfurter	5
		dark				Resistenta	7
		very dark				Reverta	9
'Mucu	read	''Vaiing leaf• intend	sity of green colors				
		Young leaf: intens Young leaf: anthocyanin coloration	sity of green colora	tion			
SK: to 19. <del>16.</del>		Young leaf: anthocyanin		tion		Goliath	1
19. 16. (*)	VG	Young leaf: anthocyanin coloration		tion		Goliath Gelbe Triumph	1 3
19. 16. (*)	VG	Young leaf: anthocyanin coloration		tion			
19. 16. (*)	VG	Young leaf: anthocyanin coloration  absent or very wea		tion		Gelbe Triumph	3
19. 16. (*)	VG	Young leaf: anthocyanin coloration  absent or very weak weak medium		tion		Gelbe Triumph Whitesmith	3 5
19. 16. (*)  QN	VG (d)	Young leaf: anthocyanin coloration  absent or very wea weak medium strong very strong	k	te 1 and 'Mucurines' f	for state 7.	Gelbe Triumph Whitesmith	3 5 7
19. 16. (*)  QN	VG (d)	Young leaf: anthocyanin coloration  absent or very wea weak medium strong very strong	k		for state 7.	Gelbe Triumph Whitesmith	3 5 7
9. 19. 16. (*)  QN	VG  (d)	Young leaf: anthocyanin coloration  absent or very wea weak medium strong very strong xample variety 'Nic	k		for state 7.	Gelbe Triumph Whitesmith	3 5 7
9. 19. 16. (*) QN PL: to	VG  (d)  add e	Young leaf: anthocyanin coloration  absent or very wea weak medium strong very strong xample variety 'Nic	k		for state 7.	Gelbe Triumph Whitesmith	3 5 7 9

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 13 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>21.</b>	<b>VG</b>	Leaf: width					
QN	<b>(e)</b>	narrow					3
		medium					<u>5</u>
		<mark>broad</mark>					<mark>7</mark>
		very broad					9
PL: to Indust		r state 7					
Indust 22.	ry' for <mark>VG</mark>	Leaf: length/ width ratio					<u></u>
Indust	ry' fo	Leaf: length/width ratio					3
Indust 22.	ry' for <mark>VG</mark>	Leaf: length/width ratio small medium					<u>5</u>
22. QN	ry' for VG (e)	Leaf: length/width ratio small medium large					
22.  QN  NL, R	vG (e)	Leaf: length/width ratio small medium					5
22.  QN  NL, R	vG (e)	Leaf: length/width ratio small medium large : agree to new char	n/width''.				<u>5</u>
QN  NL, Re NL: to	vG (e) O, SK	Leaf: length/width ratio  small medium large : agree to new char "Leaf: ratio length	n/width''.	to be deleted		Golde	<u>5</u>
QN  NL, Re NL: to	vG  (e)  O, SK read  vG	Leaf: length/width ratio  small  medium  large : agree to new char "Leaf: ratio length  Fully developed to size of blade	n/width''.	to be deleted		Golde Gelbe Triumph	5 7

NL, RO, SK: agree to delete.

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 14 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
24. 18. (+)	VG	Fully developed l angle of base of blade with petiol					
QN	(e)	very acute				Risulfa	1
		acute				California	3
		right angle				Rote Orléans	5
		obtuse				Lauffener Gelbe	7
		very obtuse					9
25. <del>19.</del>	VG	Fully developed l glossiness of uppo side					
QN	(e)	weak				Maurers Sämling	3
		medium				Rote Orléans	5
		strong				Crown Bob	7
7.		xample varieties 'I ''Leaf:''.	Korsun' and 'Rolono	da' for state 3, 'Hinno	onmäen Punainen' fo	r state 5 and 'Whitesmith'	for state
26. <del>20.</del>	VG	Inflorescence: predominant number of flower	rs				
QL	<b>(f)</b>	one				Hönings Früheste	1
		two				<b>Rokula</b>	2
		three					3
		more than three					4
PL: to	add e	xample variety 'Hi	innonmäen Keltaine	en' for state 2.			

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 15 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note Nota
27. <mark>21.</mark>	VG	Flower: anthocya- nin colora- tion of sepal					
QN	<b>(f)</b>	absent or very weak				Spinefree	1
		weak				Crown Bob	3
		medium				Whinham's Industry	5
		strong				Reverta	7
		very strong					9
PL: to	add e	xample variety 'Hinn	onmäen Keltaino	en' for state 3 and 'In	victa' for state 7.		
28. <del>22.</del>	VG	Flower: anthocya- nin colora- tion of ovary					
QN	<b>(f)</b>	absent or very weak				Rote Frankfurter	1
		weak				Grüne Kugel	3
		medium				Gelbe Triumph	5
		strong				Reverta	7
		very strong					9
PL: to	add e	xample variety 'Winh	nam's Industry' f	for state 3 and 'Rivers	sa' for state 7.		
29. 23. (*)	VG	Flower: pubescence of ovary					
QN	<b>(f)</b>	absent or very weak				Rochusbeere	1
		weak				Oakmere	3
		medium				Dams Mistake	5
		strong				Strakls Mehltaufreie	7
		very strong					9

state 7.

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 16 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
30. 24. (*)	VG	Fruit: size					
QN	QN (g)	very small				Amerikanische Gebirgsstachelbeere	1
		small				Early Green	3
		medium				Gelbe Triumph	5
		large				Grüne Kugel	7
		very large				Catherina	9
					nnonmäen Keltainen' ristic ''Fruit: width''.	for state 9.	
31. 25.		Fruit: ratio leng width	gth/				
QN	(g)	small				Early Green	3
		medium				Rote Orléans	5
		large				Grüne Flaschenbeere	7
NL: to	repla	ce the existing ex	ample varieties for st	ate 1 by 'Golda' and	'May Duke', and thos	e for state 2 by 'Achilles' ar	nd
		xample variety/va	arieties 'Pax' for stat	e 1, 'Invicta' and 'Hir	nnonmäen Keltainen'	for state 2, 'Rolonda' and '	Peggy'
32. 26. (*) (+)	VG	Fruit: shape					
PQ	(g)	globose				Bila	1
		ellipsoid				Weiße Volltragende	2
		pyriform				Grüne Flaschenbeere	3

### TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 17 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
33. 27. (*)	VG	Fruit: color					
PQ	( <b>g</b> )	yellow				Golden Lion	1
		yellow green				Gelbe Triumph	2
		green with white ting	ge			Weiße Neckartaler	3
		green				Grüne Kugel	4
		medium red				<b>Rokula</b>	<u>5</u>
		dark red				Maiherzog, Remarka	<mark>6</mark>

NL: to add example variety 'Golda' for state 1, 'Invicta' for state 3, to replace the existing varieties in state 6 by 'May Duke', 'Achilles', 'Pax' and 'Whinham's Industry'.

PL: to add example variety/varieties 'Invicta' for state 2, 'Whitesmith' for state 3, 'Pax', 'Korsun' and 'Rolonda' for state 5, 'Niesluhovskij' and 'Maurers Sämling' for state 6.

SK: to add new example variety 'Rubikon' for state 6.
RO: to read "dark red to black" with the example variety 'Cernomore' for state 6.

34. <del>28.</del>	VG	Fruit: bloom		
QN	( <b>g</b> )	absent or very weak	Mai Duke	1
		weak	Whitesmith	3
		medium	Grüne Kugel	5
		strong	Resistenta	7
		very strong	Rochusbeere	9

NL: to replace example variety by 'Whinham's Industry' for state 5.

PL: to add example variety 'Lady Delamare' for state 1, 'Robustenta' for state 7.

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 18 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
35. 29. (*)	VG	Fruit: hairiness					
QN	( <b>g</b> )	absent or very wea	k			Remarka	1
		weak				Bila	3
		medium				Golden Lion	5
		strong				Hönings Früheste	7
		very strong					9
	add e			'Pax' and 'Whiham's l 'Mucurines' for stat		state 3 and 'Invicta' for sta	nte 7.
QN	( <b>g</b> )	weak				Mauks Frühe Rote	3
Q11							
Q11		medium				Gelbe Triumph	5
Q.		medium strong				Gelbe Triumph  Rote Preis	5 7
	add e	strong	orsun' for state 3, 'I	Mucurines' for state 5	and 'Invicta' for sta	Rote Preis	
		strong		Mucurines' for state 5	and 'Invicta' for sta	Rote Preis	
PL: to	VG	strong  example variety 'Ko  Fruit: toughness of		Mucurines' for state 5	and 'Invicta' for sta	Rote Preis	
PL: to  37.  31.	VG	strong  example variety 'Ko  Fruit: toughness of skin		Mucurines' for state 5	and 'Invicta' for sta	Rote Preis	7
PL: to  37.  31.	VG	example variety 'Ko  Fruit: toughness of skin  weak		Mucurines' for state 5	and 'Invicta' for sta	Rote Preis  te 7.  Mauks Frühe Rote	3
PL: to  37.  31.  QN	VG (g)	strong  Example variety 'Ko  Fruit: toughness of skin  weak  medium  strong	of	Mucurines' for state 5		Rote Preis  te 7.  Mauks Frühe Rote Gelbe Triumph Rote Orléans	7 3 5
PL: to  37.  31.  QN	VG (g)	strong  Example variety 'Ko  Fruit: toughness of skin  weak  medium  strong	of inham's Industry' i			Rote Preis  te 7.  Mauks Frühe Rote Gelbe Triumph Rote Orléans	7 3 5
PL: to  37. 31.  QN  PL: to  38.	VG (g)	strong  Example variety 'Ko  Fruit: toughness of skin  weak  medium  strong  Example variety 'Wi  Fruit: elongation	of inham's Industry' i			Rote Preis  te 7.  Mauks Frühe Rote Gelbe Triumph Rote Orléans	7 3 5
PL: to  37.  31.  QN  PL: to  38.  32.	VG (g)	strong  Example variety 'Ko  Fruit: toughness of skin  weak  medium  strong  Example variety 'Wi  Fruit: elongation	of inham's Industry' i			Rote Preis  te 7.  Mauks Frühe Rote Gelbe Triumph Rote Orléans	7 3 5
PL: to  37. 31.  QN  PL: to  38. 32.  (+)	VG (g) add e	strong  Example variety 'Ko  Fruit: toughness of skin  weak  medium  strong  Example variety 'Wi  Fruit: elongation base	of inham's Industry' i			Rote Preis  te 7.  Mauks Frühe Rote Gelbe Triumph Rote Orléans rines' for state 7.	7 3 5 7

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 19 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
39. <mark>33.</mark>		Fruit: length of peduncle					
(+)							
QN	( <b>g</b> )	short				Mai Duke	3
		medium				Rote Orléans	5
		long				Maurers Sämling	7
PL: to	add e	xample variety 'Hii	nnonmäen Punain	en' for state 5 and 'Hir	nnonmäen Keltainen'	for state 7.	
40. 34. (*)	MG	Time of bud burst	t				
QN	(c)	very early				Bila	1
		early				Rote Frankfurter	3
		medium				Früheste von Neuwied	5
		late				Grüner Edelstein	7
		very late				Green Gem	9
PL: to state 9		xample variety 'Inv	victa' for state 3, 'N	Aucurines' for state 5,	'Korsun' for state 7 a	and 'Hinnonmäen Keltaine	n' for
41. 35. (*)	MG	Time of beginning flowering	g of				
QN	<b>(f)</b>	early				Mai Duke	3
		medium				Whinham's Industry	5
		late				Rote Orléans	7

PL: to add example variety 'Whitesmith' for state 3 and 'Hinnonmäen Keltainen' for state 7.

### TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 20 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
42. 36. (*)	MG	Time of beginning of fruit ripening	f				
QN	(g)	very early				Risulfa	1
		early				Mauks Frühe Rote	3
		medium				Rote Frankfurter	5
		late				Rote Orléans	7
		very late				Green Gem	9

NL: to replace the existing example variety in state 3 by 'May Duke', that one in state 5 by 'Whinham's Industry' and that one in state 7 by 'Achilles'.

PL: to add example variety 'Hinnonmäen Punainen' for state 3, 'Invicta' for state 5 and 'Hinnonmäen Keltainen' for state 7. SK: agree to amended wording.

## 8. Explanations on the Table of Characteristics

## 8.1 Explanations covering several characteristics

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

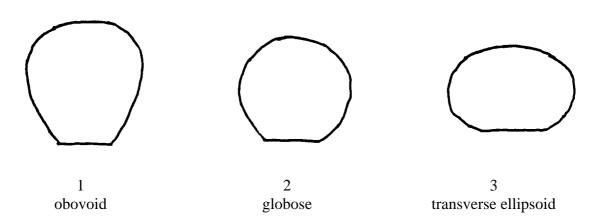
- (a) All observations on the whole plant should be made during the dormant season before pruning.
- (b) All observations on the prickles and bristles should be made on one-year-old shoots during the dormant season before pruning. Prickles should be counted on at least 1 m of shoot.

NL: to read "Prickles should be assessed over a length of 25 cm, in the middle of a shoot."

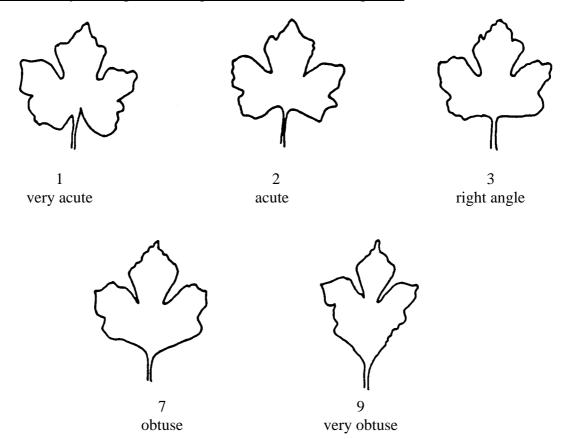
- (c) All observations on the young shoot should be made after the beginning of growth on shoots of approximately 25 10 cm in length.
- (d) All observations on the young leaf should be made after the beginning of growth when the leaflets are about 2 cm wide and the shoots 3 to 5 cm long.
- (e) All observations on the mature leaf should be made at the stage of fruit maturity on the upper third of typical shoots.
- (f) All observations on the flower should be made at the time of full flowering.
- (g) All observations on the fruit should be made at the time when the fruit is physiologically ripe.

### 8.2 Explanations for individual characteristics

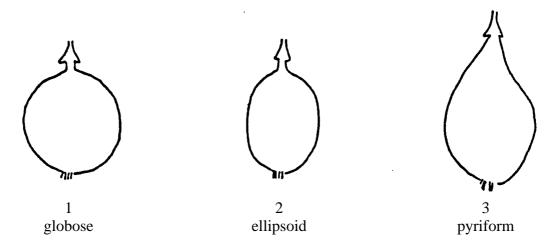
### Ad. 3: Plant: shape



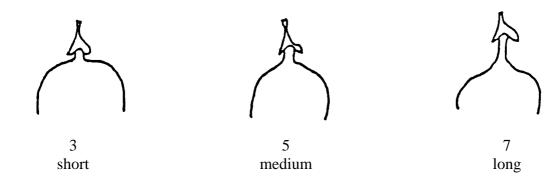
## Ad. 24: Fully developed leaf: angle of base of blade with petiole



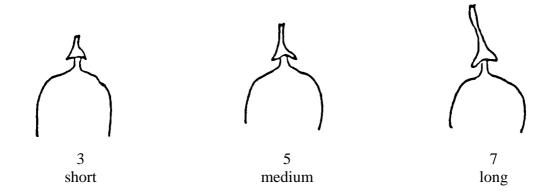
## Ad. 32: Fruit: shape



Ad. 38: Fruit: elongation of base



Ad. 39: Fruit: length of peduncle



## 8.3 Synonyms of the example varieties

Example varieties	Synonym(s)
Early Green Haire	Early Green, Grüne Deutsche
Hinnonmäen Keltainen	Hinnonmäki gelb, Hinnonmäki Gul
Hinnonmäen Punainen	Hinnonmäki rot, Hinnonmäki Röd, Lepaan
	Punainen
Whitesmith	Weiße Triumph
Winham's Industry	Rote Triumph

### TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 24 -

## 9. <u>Literature</u>

AVD för Fruktoch Bärodling: Internordic Index of Ribes and Rubus Cultivars, Alnarp, SE

Sorge, P., 1984: Beerenobstsorten. Verlag J. Neumann-Neudamm, Melsungen, DE, (259 pp.)

NL: to add new literature Hoffman, M.H.A., 2005: List of names of woody plants. Praktijkonderzoek Plant & Omgeving BV, Boskoop, NL, (871 pp.)

## 10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAI	RE	Page {x} of {y}	Reference Number:
			Application date: (not to be filled in by the applicant)
		NICAL QUESTIONN tion with an applicatio	NAIRE n for plant breeders' rights
Subject of the Technical Q	uesti	onnaire	
1.1 Botanical name	Rib	es uva-crispa L.	
1.2 Common name	Go	oseberry	
2. Applicant			
Name			
Address			
Telephone No.			
Fax No.			
E-mail address			
	onnli	aant)	
Breeder (if different from	аррп	Cant)	
3. Proposed denomination an	d bre	eeder's reference	
Proposed denomination (if available)			
Breeder's reference			

TEC	CHNIC	CAL QU	JESTIONNAIRE	Page {x} of {y}	Reference Number:			
<sup>#</sup> 4.	<sup>#</sup> 4. Information on the breeding scheme and propagation of the variety							
	4.1	4.1 Breeding scheme						
		Variety	y resulting from:					
		4.1.1	Crossing					
			(a) controlled cross (please state p	ss arent varieties)	[ ]			
			(b) partially know (please state k	n cross nown parent variety(i	[ ]			
			(c) unknown cross	S	[ ]			
		4.1.2	Mutation (please state parent	variety)	[ ]			
		4.1.3	Discovery and devel (please state where a and how developed)	and when discovered	[ ]			
		4.1.4	Other (please provide deta	ils)	[ ]			
4.2	Meth	nod of p	ropagating the variety	7				
		4.2.1	Vegetative propagati	ion				
		(	a) cuttings		[ ]			
		(	b) in vitro propagat	tion	[ ]			
		(	c) other (state meth	nod)	[ ]			
		4.2.2	Seed		[ ]			
		4.2.3	Other (please provide detail	ils)	[ ]			

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

## TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number:

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</b> (3)	Plant: shape		
	ovoid	Hönings Früheste	1[ ]
	globose	Runde Gelbe	2[ ]
	transverse ellipsoid	Ingelheimer Rote	3[ ]
5.2 (30)	Fruit: size		
	very small	Amerikanische Gebirgsstachelbeere	1[ ]
	small	Early Green	3[ ]
	medium	Gelbe Triumph	5[ ]
	large	Grüne Kugel	7[ ]
	very large	Catherina	9[ ]
5.3 (32)	Fruit: shape		
	globose	Bila	1[ ]
	ellipsoid	Weiße Volltragende	2[ ]
	pyriform	Grüne Flaschenbeere	3[ ]
5.4 (33)	Fruit: color		
	yellow	Golden Lion	1[ ]
	yellow green	Gelbe Triumph	2[ ]
	green with white tinge	Weiße Neckartaler	3[ ]
	green	Grüne Kugel	4[ ]
	medium red	Rokula	5[ ]
	dark red	Mai Duke, Remarka	6[ ]

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 28 -

TECI	HNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
	Characteristics	•	Example Varieties	Note
5.5 (42)	Time of beginning of fruit ripening	3		
	very early		Risulfa	1[ ]
	early		Mauks Frühe Rote	3[ ]
	medium		Rote Frankfurter	5[ ]
	late		Rote Orléans	7[ ]
	very late		Green Gem	9[ ]

TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number:									
6. Similar varieties a	6. Similar varieties and differences from these varieties								
Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.									
Denomination(s) of variety(ies) similar to your candidate variety	stic(s) in candidate rs from the riety(ies)	of the cha	the expression aracteristic(s) he <b>similar</b> hety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety					
Example	Fruit:	color	y	ellow	green				
Comments:	Comments:								

TECI	HNICA	AL Q	UEST	TIONNAIR	E Pa	age {z	x	f {y	<i>y</i> }	Reference Number:
<sup>#</sup> 7.	Additional information which may help in the examination of the variety									
7.1				the informa which may h						s 5 and 6, are there any additional ety?
	Yes	[	]		No	[	]			
	(If yes	s, ple	ase pr	ovide detai	ls)					
7.2	Are th	here a	ıny sp	ecial condi	tions f	or gro	win	ıg tl	ne vari	ety or conducting the examination?
	Yes	[	]		No	[	]			
	(If yes	s, ple	ase pr	ovide detai	ls)					
7.3	Other	rinfo	rmatio	on						
A rep	resent	ative	color	photograph	of the	e vario	ety s	shou	ıld acc	ompany the Technical Questionnaire.
8.	Autho	orizat	ion fo	or release						
	(a) the pr			variety requential the environ	-					release under legislation concerning health?
		Yes	[	]		No		[	]	
	(b)	Has	such a	authorizatio	n been	obta	ined	?		
		Yes	[	]		No		[	]	
	If the	answ	er to	(b) is yes, p	lease	attach	a co	opy	of the	authorization.

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

## TG/51/7(proj.1) Rev. Gooseberry, 2009-09-11 - 31 -

TECHNICAL QUESTIONNAIRE   Page {x} of {y}   Reference Number:						
9. Information on plant material to be examined or submitted for examination.						
9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.						
9.2 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 the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:						
	(a)	Microorganisms (e.g. vir	us, bacteria, phytoplasi	ma)	Yes [ ]	No [ ]
	(b) Chemical treatment (e.g. growth retardant, pesticide)				Yes [ ]	No [ ]
	(c) Tissue culture				Yes [ ]	No [ ]
	(d)	Other factors			Yes [ ]	No [ ]
	Please provide details for where you have indicated "yes".					
9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?						
	Yes [ ]					
(please provide details as specified by the Authority)						
	No	[ ]				
10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:						
	Applicant's name					
	Signa	nture		Date [		