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

# DRAFT

# KUMQUAT

UPOV Code: FORTU

Fortunella Swingle

# GUIDELINES

# FOR THE CONDUCT OF TESTS

# FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Japan

to be considered by the

# Technical Working Party for Fruit Crops at its forty-third session, to be held in Beijing, from July 30 to August 3, 2012

Alternative Names:\*

Botanical name	English	French	German	Spanish
Fortunella Swingle	Kumquat	Kumquat	Kumquat	Kumquat
<i>Citrus japonica</i> Thunb.				

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.

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. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of Fortunella Swingle.

# 2. <u>Material Required</u>

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 budsticks with sufficient buds to propagate 5 trees (to be sent at budding time), dormant shoots grafted on a rootstock selected by the testing authority or one-year-old trees grafted on a rootstock selected by the testing authority.

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

5 budsticks, or 5 dormant shoots or, 5 one-year-old trees.

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. <u>Method of Examination</u>

### 3.1 Number of Growing Cycles

3.1.1 The minimum duration of tests should normally be two independent growing cycles.

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

3.1.3 The growing cycle is considered to be the duration of a single growing season, beginning with bud burst, 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

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. Trees should only be pruned in the year of planting to ensure good branch formation.

### 3.4 Test Design

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

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 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.

### 4.1.4 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 5 plants or parts taken from each of 5 plants and any other observations made on all plants in the test, disregarding any off-type plants. In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 2.

### 4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation 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

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual

plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness."

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

### 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 further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied."

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

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Fruit: weight (characteristic 20)
- (b) Fruit: shape (characteristic 21)
- (c) Fruit: color of skin (characteristic 22)
- (d) Time of beginning of fruit ripening (characteristic 31)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

### 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

6.2.1 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.

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

### 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 QN PQ	Qualitative characteristic Quantitative characteristic Pseudo-qualitative characteristic	– see Chapter 6.3 – see Chapter 6.3 – see Chapter 6.3
MG, M	S, VG, VS	– see Chapter 4.1.5

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

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# Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	MG	Ploidy					
(+)							
QL	(a)	diploid					2
		triploid					3
		tetraploid					4
2. (*) (+)	VG	Plant: growth habit					
PQ	(b)	upright				Meiwa	1
		semi upright					2
		spreading					3
3. (*)	VG	Plant: density of branches					
QN	(b)	sparse				Tetraploid-Meiwa	3
		medium					5
		dense				Meiwa	7
4. (*)	VG/ MS	One-year-old shoot: length					
QN	(c)	short				Nagami	3
		medium				Meiwa	5
		long					7
5. (*)	VG/ MS	One-year-old shoot: thickness					
QN	(c)	thin					1
		medium				Nagami	3
		thick				Meiwa	5
6. (*)	VG/ MS	One-year-old shoot: length of internode					
QN	(c)	short				Nagami	3
		medium				Meiwa	5
		long					7

7.

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	VG	One-year-old shoot: number of spines					
QN	(c)	absent or very few				Nagami, Fukushu	1
		few				Marumi	3
		medium				Meiwa	5
		many					7
8. (*)	VG/ MS	Leaf blade: length					
QN	(c)	short				Meiwa	3
		medium					5
		long				Nagami	7
9. (*)	VG/ MS	Leaf blade: width					
QN	(d)	narrow				Meiwa	1
		medium					3
		broad				Fukushu	5
10. (*)	MS	Leaf blade: ratio length/width					
QN	(d)	very elongated					1
		moderately elongated					2
		slightly elongated					3
11. (*) (+)	VG	Leaf blade: shape					
PQ	(d)	lanceolate				Nagami	1
		elliptic				Meiwa	2
		broad elliptic				Fukushu	3
12. (*) (+)	VG	Leaf blade: shape of apex					
PQ	(d)	acute					1
		acuminate				Meiwa	2
		obtuse				Fukushu	3

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. (*) (+)	VG	Leaf blade: shape of base					
PQ	(d)	acute				Nagami	1
		right angle or nearly right angle				Meiwa	2
		obtuse				Fukushu	3
14. (*)	VG	Leaf blade: undulation of margin					
QN	(d)	weak				Meiwa	1
		medium					2
		strong					3
15. (*)	VG/ MS	Leaf: length of petiole					
QN	(d)	short				Meiwa, Fukushu	1
		medium					3
		long					5
16. (*) (+)	VG/ MS	Flower: diameter					
QN	(e)	small				Meiwa	1
		medium					3
		large					5
17. (*)	MS	Flower: number of filaments					
QN	(e)	few				Nagami	1
		medium				Meiwa	3
		many					5
18. (*)	VG/ MS	Fruit: length					
QN	(f)	short					1
		medium				Meiwa	3
		long				Nagami	5

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (*)	VG/ MS	Fruit: diameter					
QN	(f)	small				Marumi	1
		medium					3
		large				Fukushu	5
20. (*)	MG	Fruit: weight					
QN	(f)	light				Nagami	3
		medium				Meiwa	5
		heavy					7
21. (*) (+)	VG	Fruit: shape					
PQ	(f)	elliptic				Meiwa	1
		round				Marumi	2
		obovate				Fukushu, Nagami	3
22. (*)	VG	Fruit: color of skin					
PQ	(f)	yellowish orange				Nagami	1
		orange				Meiwa	2
		dark orange					3
23 (*) (+)	VG/ MS	Fruit: thickness of skin					
QN	(f)	thin				Marumi	1
		medium				Meiwa	3
		thick					5
24. (*) (+)	MG	Fruit: sweetness of flesh					
QN	(f)	low				Nagami	3
		medium				Meiwa	5
		high					7
•							

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		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25. (*) (+)	MG	Fruit: acidity of flesh					
QN	(f)	low					3
		medium				Meiwa	5
		high				Nagami	7
26. (*) (+)	MG	Fruit: sweetness of skin					
QN	(f)	low					3
		medium				Meiwa	5
		high					7
27. (*)	VG	Fruit: juiciness					
QN	(f)	low					3
		medium				Meiwa	5
		high					7
28. (*)	MS	Fruit: number of fully developed seeds					
QN	(f)	none or very few					1
		few				Marumi	2
		medium					3
29. (*)	VG	Seed: embryony					
QL	(f)	monoembryonic				Meiwa	1
		polyembryonic				Nagami	2
30.	VG	Time of beginning of flowering					
QN	(e)	early					3
		medium					5
		late					7
31. (*)	VG	Time of beginning of fruit ripening					
QN	(f)	early					3
		medium				Meiwa	5
		late					7

### 8. <u>Explanations on the Table of Characteristics</u>

# 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) Observations should be made at physiological ripeness.
- (b) <u>Plant:</u> All observations on the plant should be made in the winter season
- (c) <u>One-year-old shoot:</u> All observations on the one-year-old shoot should be made on moderate shoots at the equatorial part of outer side of the plant.
- (d) <u>Leaf blade</u>: All observations on the leaf blade should be made on fully developed leaves. Leaves should be taken from the middle third of one-year-old shoots.
- (e) <u>Flower</u>: All observations on the flower should be made on the primary flowers.
- (f) <u>Fruit:</u> All observations on the fruit should be made on the first fruit.

### 8.2 Explanations for individual characteristics

### Ad. 1: Ploidy

Ploidy is determined by counting chromosomes or by flow cytometry.

# Ad. 2: Plant: growth habit



upright

semi upright



# Ad. 11: Leaf blade: shape



1 lanceolate



elliptic



3 broad elliptic

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# Ad. 12: Leaf blade: shape of apex



acute

2 acuminate

obtuse

# Ad. 13: Leaf blade: shape of base



1 acute



2 right angle or nearly right angle



3 obtuse

Ad. 16: Flower: diameter



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# Ad. 21: Fruit: shape



Ad. 23: Fruit: thickness of skin



Ad. 24: Fruit: sweetness of flesh

The sweetness should be determined by refractometer.

# Ad. 25: Fruit: acidity of flesh

The acidity should be determined by titratable acidity.

## Ad. 26: Fruit: sweetness of skin

The sweetness of skin should be determined juice from peeled skin at the middle part of fruit by refractometer.

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

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

TECHNICAL QUESTIONNAIRE			Page {x} of {y}	Reference Number:
				Application date: (not to be filled in by the applicant)
	to be completed in	TE conr	CHNICAL QUESTIONNAI	RE for plant breeders' rights
1.	Subject of the Technical Question	nair	e	
	1.1 Botanical name	For	tunella Swingle	
	1.2 Common name	Kun	nquat	
2.	Applicant			
	Name			
	Address			
	Telephone No.			
	Fax No.			
	E-mail address			
	Breeder (if different from applican	it)		
3.	Proposed denomination and bree	der's	s reference	
	Proposed denomination (if available)			
	Breeder's reference			

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					r			
TEC	HNIC	AL QUEST	IONNA	NRE	Page {x} of {y}		Reference Number:	
<sup>#</sup> 4.	Infor	mation on	the bre	eding scheme ar	nd propagation o	f the varie	ty	
	4.1	Breeding	g scher	ne				
		Variety	resultin	ig from:				
		4.1.1	Cross	sing				
			(a)	controlled cross (please state pa	s arent varieties)		[]	
		( female par	ent	)	х	( male pa	arent	
			(b)	partially known (please state kr	cross nown parent vari	ety(ies))	[]	
		() female parent		)	Х	( male pa	arent	
			(c)	unknown cross			[]	
		4.1.2	Mutat (pleas	tion se state parent va	ariety)		[]	
		4.1.3	Disco (pleas	very and develop se state where ar	oment nd when discove	red and ho	[ ] ow developed)	
		4.1.4	Other (pleas	se provide details	s)"		[ ]	

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TECHNICA	L QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
4.2	Method of propagating the varie 4.2.1 Vegetative propagatio	əty n		
	(a) cuttings		[]	
	(b) in vitro propagation	on	[]	
	(c) other (state meth	od)	[]	
	4.2.2 Seed		[]	
	4.2.3 Other (please provide details	5)"	[ ]"	

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TECH	NICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
5. chara	Characteristics of the variety to cteristic in Test Guidelines; please ma	be indicated (the number ark the note which best corr	in brackets refers to the correse sponds).	sponding
	Characteristics		Example Varieties	Note
5.1 (20)	Fruit: weight			
	very light			1[]
	very light to light			2[]
	light		Nagami	3[]
	light to medium			4[]
	medium		Meiwa	5[]
	medium to heavy			6[]
	heavy			7[]
	heavy to very heavy			8[]
	very heavy			9[]
5.2 (21)	Fruit: shape			
	elliptic		Meiwa	1[]
	round		Marumi	2[ ]
	obovate		Fukushu, Nagami	3[]
5.3 (22)	Fruit: color of skin			
	yellowish orange		Nagami	1[]
	orange		Meiwa	2[ ]
	dark orange			3[]
5.4 (31)	Time of beginning of fruit ripening			
	very early			1[]
	very early to early			2[ ]
	early			3[ ]
	early to medium			4[ ]
	medium		Meiwa	5[ ]
	medium to late			6[]
	late			7[]
	late to very late			8[

very late

9[]

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TECHNICAL QUESTIONNA	Page {x} of {y}		Reference Number:		
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 Characteristi variety(ies) similar to your candidate variety from the simil		c(s) in which variety differs ar variety(ies)	Describe the expression of the characteristic(s) for the <b>similar</b> variety(ies)		Describe the expression of the characteristic(s) for <b>your</b> candidate variety
Example	Fruit color		orange		dark orange
Comments:					

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- 23	-

TECH	INICAL	QUESTIONNAIRE	Page {x} of {y	}	Reference Number:
<sup>#</sup> 7.	Additio	onal information which may he	p in the examina	ation of the	variety
7.1	In add help to	ition to the information provide odistinguish the variety?	d in sections 5 a	and 6, are th	nere any additional characteristics which may
	Yes	[]	No []		
	(If yes,	please provide details)			
7.2	Are th	ere any special conditions for	growing the varie	ety or condu	cting the examination?
	Yes	[]	No []		
	(If yes,	please provide details)			
7.3	Other	information			
	What	s this variety used for?			
	Fruit	[]	Ornamental	[]	
A rep	resentat	ive color image of the variety s	hould accompar	ny the Techi	nical Questionnaire.
8.	Autho	rization for release			
	(a) the en	Does the variety require prior vironment, human and animal	authorization for health?	r release un	nder legislation concerning the protection of
		Yes []	No	[]	
	(b)	Has such authorization been	obtained?		
		Yes []	No	[]	
	If the a	answer to (b) is yes, please att	ach a copy of the	e authorizat	ion.

# TG/Fortu(proj.2) Kumquat, 2012-06-19

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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. virus, bacteria, pl	nytoplasma)		Yes []	No [ ]	
	(b)	Chemical treatm	ient (e.g. growth retard	ant, pesticide)		Yes []	No [ ]	
	(c)	Tissue culture				Yes []	No []	
	(d)	Other factors				Yes []	No []	
	Please	e provide details	for where you have ind	icated "yes".				
10.	l herel	by declare that, to	o the best of my knowle	edge, the information	on provided in th	is form is cor	rect:	
	Applica	ant's name						
	Signat	ure			Date			]

[Annex I follows]

#### TG/FORTU(proj.2) Fortunella, 2012-06-14

#### ANNEX I

# COMMENTS FROM AN EXPERT FROM ISRAEL AND ANSWERS FROM DRAFTER

### TG/FORTUNELLA COMM 120528

Comments to TG/FORTU(proj. 1) date: 2011-09-05 with the results of the TWF 2011 in Japan

char 2 Plant: growth habit To allow for in-between states I propose upright state 1, semi upright 3, spreading 5

>Please see TGP/14/1 Draft 11, page48 example 1 to 4
Actually your proposal is example 2 on page 48.
I think that in the case of fortunella example 1 is better than example 2.
If it is acceptable for you, I would like to keep original states.

char 3 Plant: density 'of branches' Should be 'of branching'

>In former session 'branching' was proposed and 'branches' have been kept. The dictionary which is edited by the Japanese horticulture academy explains that; 'branch' is branch, 'branching' is small branch. Does this explanation suit your understanding? If 'branch' includes whole branches, I think 'branch' is better.

char 10 Leaf blade: ratio length/width normally we have the states from low to high this order of very elongated state 1 to slightly elongated state 3 is the result of the diversion of the use of the simple small to large for ratio

>In this case, could original order be kept?

char 13 Leaf blade: shape of base right angle propose to add: 'right angle or nearly right angle' as lawyers may misunderstand that botany is not mathematics

>I would like to replace by new words of your comment.

char 21 Fruit: shape add: 'shape in longitudinal section'

>In former session 'shape in longitudinal section' was proposed and 'shape' has been kept.

[Annex II follows]

### TG/FORTU(proj.2) Fortunella, 2012-06-14

### ANNEX II

# ITEMS CHANGED FROM PROJ.1 EXCEPT PARAGRAPH 66 ON TWF/42/26.

Char. 8	to add an example variety: Nagami (7)
Char. 9	to add an example variety: Fukushu (5)
Char. 11	to keep this char. by changing the states and example varieties: lanceolate (1), Nagami; elliptic (2), Meiwa; broad elliptic (3), Fukushu
Char. 12	to change the states and example varieties: acute (1); acuminate (2), Meiwa; obtuse (3), Fukushu
Char. 13	to add an example variety: Fukushu (3)
Char. 14	to be deleted an example variety: Nagami (2)
Char. 15	to add an example variety: Fukushu (1)
Char. 18	to add example varieties: Marumi (3); Nagami (5)
Char. 19	to add example varieties: Marumi (1); Fukushu (5)
Char. 23	to be deleted an example variety: Fukushu (1)
Char. 28	to add an example variety: Meiwa (4)
Ad. 11 to 13	to change pictures according to the states
Ad. 21	to move pictures according to TGP/14/1 Section 2

[End of Annexes and of document]