

TWV/41/10 Rev. ORIGINAL: English DATE: June 8, 2007

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Forty-First Session Nairobi, June 11 to 15, 2007

REVISED EXERCISE ON SHAPE

Document prepared by the Office of the Union

Background

- At its fortieth session held in Guanajuato, Mexico, from June 12 to 16, 2006, the TWV discussed document TGP/14.2.1 (& 2) Draft 5 and "... expressed concern at the replacement of single overall shape characteristics by a number of characteristics describing the individual components of shape. In particular, it was agreed that a characteristic describing the overall shape was important for variety description purposes. Therefore, it proposed that both approaches should be acceptable. However, it considered that, where an overall shape characteristic was included in the Test Guidelines, it would be worthwhile considering the inclusion of charts such as that in section 2.2, Examples 4 and 5 in the explanations in Chapter 8. In order to consider the matter further, it was agreed that an exercise should be undertaken. Experts from Germany and France would provide photographs of up to 50 onion varieties and experts from France, the Netherlands and South Africa would provide photographs of up to 50 varieties of Cucurbita maxima Duch. to the Office. Selected photographs would then be circulated to the TWV, who would be invited to classify the varieties according to characteristics for overall shape, as contained in the Test Guidelines, and according to components of shape according to the proposals in TGP/14..." (see paragraph 37 of document TWV/40/11).
- 2. Experts from France and Germany provided photographs of onion and experts from France and the Netherlands provided photographs of *Cucurbita maxima* Duch.

Organization of the Exercises

3. The exercises were organized as follows:

Exercise on Onion

Step 1

On May 1, 2007, Circular E_478 was sent to all TWV experts to explain the organization of the exercise. Photographs of 30 varieties of onion were placed on the TWV/41 area of the UPOV Website. The photographs had reference numbers but the variety names were not provided.

Exercise 1: All TWV experts were invited to describe the overall shape of the varieties according to characteristic 18 "Bulb/Bulblet: general shape in longitudinal section" of document TG/46/6.

Exercise 2: All TWV experts were invited to describe the varieties according to two components of shape, which had been developed on the basis of document TGP/14 and which were included in the draft revised Test Guidelines (see document TG/46(proj.3): characteristics 15 and 16).

Step 2

A separate circular (Circular E_506) was sent on May 21, 2007, listing the varieties used for the exercises. The TWV experts were invited to send to the Office of the Union their official descriptions of the listed varieties with respect to Characteristic 18 of TG/46/6.

Exercise on Cucurbita maxima Duch.

Step 1

On May 1, 2007, Circular E_478 was sent to all TWV experts to explain the organization of the exercise. Photographs of 50 varieties of *Cucurbita maxima* Duch. were placed on the TWV/41 area of the UPOV Website. The Photographs had reference numbers but the variety names were not provided.

Exercise 1: All TWV experts were invited to describe the overall shape of the varieties according to characteristic 19 "Fruit: shape in longitudinal section" of document TG/155/3 and according to characteristic 15 "Fruit: shape in longitudinal section" of draft revised Test Guidelines (document TG/155/4(proj.3)).

Exercise 2: All TWV experts were invited to describe the varieties according to three components of shape, which had been developed on the basis of document TGP/14 and two of which were included in the draft revised Test Guidelines (see document TG/155/4(proj.3): characteristics 14 and 16).

Step 2

A separate circular (Circular E_506) was sent on May 21, 2007, listing the varieties used for the exercises. The TWV experts will be invited to send to the Office of the Union their official descriptions of the listed varieties with respect to Characteristic 19 of TG/155/3.

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Participation in Exercise

Exercise on Onion

4. Bulgaria, the Czech Republic, France, Germany, Israel, the Netherlands, Slovakia, Spain and the United Kingdom sent replies to Step 1 (Bulgaria participated only in Exercise 1). For Step 2, official descriptions according to Characteristic 18 of document TG/46/6 were provided by Germany (3 varieties), France (24 varieties), the Netherlands (20 varieties), Slovakia (4 varieties), Spain (6 varieties) and the United Kingdom (4 varieties). France and the United Kingdom sent additional comments.

Exercise on Cucurbita maxima

5. Bulgaria, the Czech Republic, France, Germany, the Netherlands, the Republic of Korea, Spain and the United Kingdom sent replies to Step 1 (Bulgaria participated only in Exercise 1). For Step 2, official descriptions according to characteristic 19 of document TG/155/3 were provided by Germany (1 variety), France (18 varieties), the Netherlands (13 varieties) and by Spain (1 variety). France and the United Kingdom sent additional comments.

Result of the Exercises

6. The results are reproduced as follows:

Annex I: Onion: Summary of Step 1 Exercise 1
Annex II: Onion: Summary of Step 1 Exercise 2

Annex III: Onion: Summary of Step 2

Annex IV: Onion: Comments sent by participants

Annex V: Cucurbita maxima: Summary of Step 1 Exercise 1
Annex VI: Cucurbita maxima: Summary of Step 1 Exercise 2

Annex VII: Cucurbita maxima: Summary of Step 2

Annex VIII: Cucurbita maxima: Comments sent by participants

- 7. Each number in the summary tables indicates the number of country experts having chosen that state of expression. In many cases experts have chosen only one state of expression. There are some cases where experts have chosen more than one state of expression. In those cases, the score "1" attributed to that expert is divided evenly to the states of expression chosen; for example, if an expert has chosen five states of expression, each state of expression receives "0.2".
- 8. The photographs of the varieties used in the exercises are included in Annex IX (onion) and in Annex X (*Cucurbita maxima* Duch.).

[Annex I follows]

ANNEX I

ONION: SUMMARY OF STEP 1 EXERCISE 1

Onion Step 1 Exercise 1					
Description of ove	erall shape				
Variety Name	reference				
Limbo	O-1-1				
Victory	O-1-2				
Vares	O-1-3				
Sabroso	O-1-4				
Gunnison	O-1-5				
Dacapo	O-1-6				
Canto	O-1-7				
Solution	O-1-8				
Collito	O-1-9				
Vento	O-1-10				
Quattro	O-1-11				
Birnförmige	O-1-12				
Stuttgarter Riesen	O-1-13				
Tamara	O-1-14				
Staccato	O-1-15				
Festival	O-1-16				
Houcadere	O-1-17				
Barona	O-1-18				
Campillo	O-1-19				
Corito	O-1-20				
De Toulouges	O-1-21				
De la reine	O-1-22				
Elad	O-1-23				
Globruna	O-1-24				
Piroska	O-1-25				
Premier (1740)	O-1-26				
Red Express	O-1-27				
Redfort	O-1-28				
Ribosa	O-1-29				
Robin	O-1-30				

Description according to characteristic 18 of document TG/46/6								
1 elliptic	ovate	broad elliptic	circular	broad ovate	broad obovate	rhombic	transverse elliptic	transverse narrow elliptic
1	2	3	4	5	6	7	8	9
			8				9	
		1	3.5	1	2.5		9	
		'	4.5	'	4.5			
			7.0	1	7			
			7	1				
			7				2	
1			2.5	5.5				
				0.5		1	6.5	
			2.75		3.75	1.25	0.25	
		0.5	6.5		2			
2	4	2				1		
							1	8
					8			
		1	6	1				
-	4				8	4		
7	1					1	4	0
			9				1	8
			7	2				
			- 1			2.5	3	3.5
						2.0	1	8
		1			8		_ '	- 5
							8	1
		1	5.5	2.5				
							1	7
			8		1			
1		4.5	1.5	1				
			5		4			
0.5		1			5.5	1		

notes appearing in official description (see Annex III)

ANNEX II

ONION: SUMMARY OF STEP 1 EXERCISE 2

Onion Step 1 Exercise 2							
Description of varieties according to two components of shape							
Variety Name reference							
Limbo	O-2-16						
Victory	O-2-15						
Vares	O-2-14						
Sabroso	O-2-13						
Gunnison	O-2-12						
Dacapo	O-2-11						
Canto	O-2-10						
Solution	O-2-09						
Collito	O-2-08						
Vento	O-2-07						
Quattro	O-2-06						
Birnförmige	O-2-05						
Stuttgarter Riesen	O-2-04						
Tamara	O-2-03						
Staccato	O-2-02						
Festival	O-2-01						
Houcadere	O-2-30						
Barona	O-2-29						
Campillo	O-2-28						
Corito	O-2-27						
De Toulouges	O-2-26						
De la reine	O-2-25						
Elad	O-2-24						
Globruna	O-2-23						
Piroska	O-2-22						
Premier (1740)	O-2-21						
Red Express	O-2-20						
Redfort	O-2-19						
Ribosa	0-2-18						
Robin	O-2-17						

Bulb: position of						
broadest part						
L towards top	8 6 4 at middle	κ towards base				
1	2	3				
1	7					
	8					
2 4 7	6					
4	4					
7		1				
	8					
1	8 7					
	5.5	2.5				
1	6	1				
2	6					
2 1.5	6 6 6.5					
1	4	6				
	8					
6	2					
	8					
6	1					
1	7					
	8					
	8					
	7	1				
0.5	7.5					
	7	1				
7	8 2 8 1 7 8 8 7 7.5 7 1 6 7 8					
2	6					
	7	1				
	8					
2	6					
	•	1				
3	5					
4.5	3.5					

	Bulb: ratio height/diameter							
very small		small		medium		large		very large
1	2	3	4	5	6	7	8	9
			2	5	1			
	1	1	6					
		1	2	3.5	1.5			
1		1	1	4	1			
			1	5 5	1	1		
	1		2	5				
		1	3	4				
	1		1	4	2			
	1	2	4		1			
	1		1	6				
		1	1	5.5	0.5			
					2	5	1	
2		5		1				
			3	4 6	1			
1		1		6				
	1			4	3			
						1		7
2		5		1				
	1			6	1			
		1		5	2			
1	2	4	2					
2		5		1				
	1			4	2	1		
	2	2	2	1	1			
1			2	4	1			
3	1	5						
		1	1	5		1		
		1		3	3	1		
1		1		3.5	2.5			
				1	4	1	1	1

[Annex III follows]

ANNEX III

ONION: SUMMARY OF STEP 2

Onion Step 2
Official description
of varieties
Variety Name
Limbo
Victory
Vares
Sabroso
Gunnison
Dacapo Canto
Solution
Collito
Vento
Quattro
Birnförmige
Stuttgarter Riesen
Tamara
Staccato
Festival
Houcadere
Barona
Campillo
Corito
De Toulouges
De la reine
Elad
Globruna
Piroska
Premier (1740)
Red Express
Redfort
Ribosa
Robin

	Description according to characteristic 18 of document TG/46/6								
elliptic	ovate	broad elliptic	circular	broad ovate	broad obovate	4 rhombic	transverse elliptic	transverse narrow elliptic	
1	2	3	4	5	6	7	8	9	
			4 1.5				0.5		
			2						
			0.5		0.5	1			
					2				
			4						
			0.5				0.5		
			1	1					
					1				
			0.5	0.5					
			0.5		0.5				
	1								
								3	
			2.5	0.5					
			4						
		2			1				
1									
								2	
		0.5	3.5						
			1.5				0.5		
							1		
								2	
			1		1				
							1		
			1				2		
								1	
			1						
			1		1				
			1						
		1	1		2				

ANNEX IV

ONION: COMMENTS SENT BY PARTICIPANTS

Comments sent by France

Exercise 1

Below are the pictures for which we observed a non-uniformity on shapes. We cannot give a common note for the sample.

- *O-1-1*: we observe shape 3, shape 4 and shape between (7-4).
- *O-1-3*: we observe shape 4 and shape between (4-8).
- *O-1-5*: we observe shape 6 and shape between (6-4).
- *O-1-6*: we observe shape between (4-8).
- *O-1-7*: we observe shape between (4-7).
- *O-1-9*: we observe shape between (6-8).
- *O-1-10*: we observe shape between (4-6).
- *O-1-14*: we observe shape between (6-4).
- *O-1-15*: we observe shape between 6-4).
- *O-1-16*: we observe shape between 6-4).
- *O-1-26*: we observe shape between (9-8).
- *O-1-28*: we observe shape between (4-3).
- *O-1-30*: we observe shape between (3-4).

Exercise 2

O-2-1: Bulb "position of broadest part", it corresponds to state 1 (towards top) and state 2 (at middle).

Comments sent by the United Kingdom

An overall score was difficult to assess where samples were made up of only 2 bulbs, especially if both bulbs different significantly in shape. In these instances two scores were entered (one for each bulb). This occurred in exercise 1, ref 0-1-21 and ref 0-1-29 and in exercise 2, ref. 0-2-18 and ref. 0-2-26.

[Annex V follows]

ANNEX V

CUCURBITA MAXIMA: SUMMARY OF STEP 1 EXERCISE 1

Cucurbita maxima Step 1 Exercise 1					
Description of overall	shape				
Variety Name	reference				
Atlantic Giant	C-1-1				
Big Max	C-1-2				
Black Forest	C-1-3				
Blue Banana	C-1-4				
Blue Hungarian Squash	C-1-5				
Bonbon	C-1-6				
Confection	C-1-7				
Crown Prince	C-1-8				
Dulce de Horno	C-1-9				
Evergreen	C-1-10				
Gigily	C-1-11				
Golden Debut	C-1-12				
Grand Luck	C-1-13				
Greenwich	C-1-14				
Hokkaido	C-1-15				
Hundred Weight Jaune Gros de Paris	C-1-16 C-1-17				
	C-1-17				
Jumbo					
Kokken	C-1-19				
Mini Green Hubbard	C-1-20 C-1-21				
New England Blue Hubbard North Georgia	C-1-21				
Olive	C-1-22				
Pacifica	C-1-23				
Prince Regent	C-1-24				
Prizewinner	C-1-26				
Queensland Blue	C-1-20				
Regal	C-1-28				
Rouge vif d'Etampes	C-1-29				
Valenciano	C-1-30				
Wart pumpkin	C-1-31				
Warted Hubbard	C-1-32				
Aladdin's Turban	C-1-33				
Blanche Plat White Boer	C-1-34				
Bleu de Hongrie	C-1-35				
Buttercup	C-1-36				
Chestnut Bush	C-1-37				
Courge du Perou	C-1-38				
Courge olive	C-1-39				
Giraumon turban turc	C-1-40				
Golden Delicious	C-1-41				
Golden Hubbard	C-1-42				
Green Hokkaïdo	C-1-43				
Kizombori	C-1-44				
Marina di Chioggia	C-1-45				
Pink Jumbo Banana	C-1-46				
Potiron Rouge vif d'Etampes	C-1-47				
Tristar	C-1-48				
Vert Olive	C-1-49				
Zapallo grande de Guarda	C-1-50				

Description according to characteristic 19 of document TG/155/3								
capped capped	transverse elliptic	circular	4 quadrangular	g obovate	elliptic	4 narrow elliptic	rectangular	
1	2	3	4	5	6	7	8	
	1	6						
	1	6						
	6		1		0	-		
	7				2	5		
7	1							
	7							
			1					
	6 7							
							7	
	7							
1	1	2		2				
	7 7 7							
	7							
	7							
	7							
	•	6	1					
						1	6	
	1			6				
				4	1			
						7		
					7			
	7							
	7	7						
		1	7					
	3.5	3.5	,					
	7	0.0						
	4		1					
1	6							
1				2.5	1.5			
7	7							
	7							
	- /		7					
	5		1					
1			1	1	1		1	
1	3.5	0.5			1			
6								
1				1	2			
1				4	2			
1	1	5			-			
3.5	3.5	1			5			
ა.5	ა.5					7		
	7					,		
1	2	0.5	3.5					
		3.5			1.5			

	Description according to characteristic 15 of document TG/155/4									
heart shaped	capped	transverse medium elliptic	transverse broad elliptic	circular	narrow elliptic	medium elliptic	rectangular	trapezoid	broad pear shaped	narrow pear shaped
1	2	3	4	5	6	7	8	9	10	11
			2	5						
			1	6						
		1	6		6	1				
		2	5		0	-				
	6		1							
		3	4							
		6	1							
		1	6							
			_			1	6			
\vdash		2	5	2				4	4	
Н			7	3				1	1	
			7							
			7							
		5	2							
		5	2							
			1	5				1		
							7			
			1	1		1		0.5	4.5 3	
				-	7	1			3	
					1	6				
		1	6							
		1	6							
				7						
1			2				2	2		
1			5	1						
\vdash		6	1 5							
1		1	5							
				1		1			3	
	7									
		3	4							
Щ		6	1					Ļ		
\vdash			2					5		
7			4					3		
1			3	1		1				
1	5									
7										
										6
Ш			1	6						
\vdash	15	2.5		1	1	5				
\vdash	4.5	2.5			6	1				
\vdash		7			J	'				
2			2	1			1			
1				4.5	0.5					
1	1		1	1					1	
no	tes ar	nearin	g in off	icial d	lescri	intion	s (se	e Anr	ev V	11)

notes appearing in official descriptions (see Annex VII)

ANNEX VI

CUCURBITA MAXIMA: SUMMARY OF STEP 1 EXERCISE 2

Cucurbita maxima Step 1	Cucurbita maxima Step 1 Exercise 2					
Description of varieties according to three components of shape						
Variety Name	reference					
Atlantic Giant	C-2-10					
Big Max	C-2-09					
Black Forest	C-2-08					
Blue Banana	C-2-07					
Blue Hungarian Squash	C-2-06					
Bonbon	C-2-05					
Confection	C-2-03					
Crown Prince	C-2-04 C-2-03					
Dulce de Horno	C-2-03					
Evergreen	C-2-01					
Gigily Coldan Debut	C-2-20					
Golden Debut	C-2-19					
Grand Luck	C-2-18					
Greenwich	C-2-17					
Hokkaido	C-2-16					
Hundred Weight	C-2-15					
Jaune Gros de Paris	C-2-14					
Jumbo	C-2-13					
Kokken	C-2-12					
Mini Green Hubbard	C-2-11					
New England Blue Hubbard	C-2-30					
North Georgia	C-2-29					
Olive	C-2-28					
Pacifica	C-2-27					
Prince Regent	C-2-26					
Prizewinner	C-2-25					
Queensland Blue	C-2-24					
Regal	C-2-23					
Rouge vif d'Etampes	C-2-22					
Valenciano	C-2-21					
Wart pumpkin	C-2-40					
Warted Hubbard	C-2-39					
Aladdin's Turban	C-2-38					
Blanche Plat White Boer	C-2-37					
	C-2-36					
Bleu de Hongrie	C-2-35					
Buttercup Character Bush						
Chestnut Bush	C-2-34					
Courge du Perou	C-2-33					
Courge olive	C-2-32					
Giraumon turban turc	C-2-31					
Golden Delicious	C-2-50					
Golden Hubbard	C-2-49					
Green Hokkaïdo	C-2-48					
Kizombori	C-2-47					
Marina di Chioggia	C-2-46					
Pink Jumbo Banana	C-2-45					
Potiron Rouge vif d'Etampes	C-2-44					
Tristar	C-2-43					
Vert Olive	C-2-42					
Zapallo grande de Guarda	C-2-41					

Fi	ruit: la	ateral	outli	ne
capped	rouded	parallel	flat taper	concave
1	2	3	4	5
-	7 7 7 7	-	-	3
	7			
	7			
	7			
1	6			
6	1			
	7			
	7			
	7			
		7		
	6	1		_
	3		1	3
	7			
0.5	7 6.5			
	7			
	7			
	6		1	
1		6		
	3			4
1.2	3.2	0.2	0.2	2.2
	7			
	6			1
	7 7 7			
	7			
1	1	1	4	
_	7	_		
	7			
	3			
	7			
0.2	3.2	0.2	0.2	3.2
7				
	7			
	7	_	L .	
	1	2	4	
	7		1	
	6		_	
6	5			1
	7			
0.2	0.2	0.2	0.2	6.2
	7			
	7			
5	2			
	7			
	7			
	4	2		1
•	7			
2	4			1

	: positi	
ц		mo
towards stem end	ø)	wards blossom end
ırds	at middle	ds b
towa end	ıt m	twar
	0	± 0
1	7	3
	7	
		4
1	6	1
1	6	
	6	1
1	6	
	7	
	7	
	6 7	1
	7	
	7	
1		4
1	6	
	7	
	6.5	0.5
0.5	6.5	
	6	1
	6	1
	6	1
	5	2
	5	2
1	5	1
1	6	
	6	1
	7	
	7	
6	1	
1	6	
	7	
	3	
1	6	
	4	3
7		
	7	
	7	
	3	4
	5	2
7		
1	4.5	0.5
4		2
7		\vdash
		7
	7	\vdash
	7	
1	5	1
•	6	1
	7	\vdash
4	3	\vdash
1	6	
5	1	1
ວ		1 1

Cucurbita maxima Step 1	Exercise 2	broadest part								meter	er								
Description of varieties activate components of s	Ü	capped	rouded	parallel	flat taper	concave		towards stem end	at middle	twards blossom end	very small		small		medium		large		very large
Variety Name	reference	1	2	3	4	5		1	2	3	1	2	3	4	5	6	7	8	9
Atlantic Giant	C-2-10		7				1		7						7				
Big Max	C-2-09		7						7				1	2	4				
Black Forest	C-2-08		7						6	1			5	1				1	
Blue Banana	C-2-07		7					1	6			1					1	3	2
Blue Hungarian Squash	C-2-06	1	6						6	1	2	3	1		1				
Bonbon	C-2-05	6	1					1	6			3	3		1				
Confection	C-2-04		7						7		3	2	1		1				
Crown Prince	C-2-03		7						7		5	1			1				
Dulce de Horno	C-2-02		7						6	1	1	2	3		1				
Evergreen	C-2-01			7			1		7								7		
Gigily	C-2-20		6	1			1		7		1	4	2						\Box
Golden Debut	C-2-19		3		1	3	1	1	2	4				3	4				М
Grand Luck	C-2-18		7				1	1	6			1	5	1					\Box
Greenwich	C-2-17		7						7				7						
Hokkaido	C-2-16	0.5	6.5						6.5	0.5			7						
Hundred Weight	C-2-15		7					0.5	6.5		3	3	1						
Jaune Gros de Paris	C-2-14		7						6	1		5	2						
Jumbo	C-2-13		6		1				6	1					5	2			
Kokken	C-2-12	1		6					6	1						1	6		
Mini Green Hubbard	C-2-11		3			4			5	2			5	1	1				
New England Blue Hubbard	C-2-30	1.2	3.2	0.2	0.2	2.2			5	2					1	3	3	\vdash	
North Georgia	C-2-29		7					1	5	1								1	6
Olive	C-2-28		6			1		1	6							4	2	1	
Pacifica	C-2-27		7						6	1	1	0.5	4.5	1					
Prince Regent	C-2-26		7						7		1	2	4					_	
Prizewinner	C-2-25		7						7						6	1		\vdash	
Queensland Blue	C-2-24	1	1	1	4			6	1			1	1	2	3			\vdash	
Regal	C-2-23		7					1	6				2	3	2			\vdash	
Rouge vif d'Etampes	C-2-22		7						7		6		1					\vdash	
Valenciano	C-2-21		3						3			1	2					\vdash	
Wart pumpkin	C-2-40	-	7					1	6			1	5	1				\vdash	
Warted Hubbard	C-2-39	0.2	3.2	0.2	0.2	3.2			4	3			_		3	4			
Aladdin's Turban	C-2-38	7						7					1	2	3	1		\vdash	
Blanche Plat White Boer	C-2-37		7						7		1	5	1						
Bleu de Hongrie	C-2-36		7						7		4	3						—	
Buttercup	C-2-35		1	2	4				3	4	-	_	1	4	2				
Chestnut Bush	C-2-34		7	H					5	2			4	3					
Courge du Perou	C-2-33		6		1		1	7		\vdash			H	Ť	1	5	1	\vdash	Н
Courge olive	C-2-32	-	6		H		ł	1	4.5	0.5			1	2	2.5	0.5	<u>'</u>	┢	Н
Giraumon turban turc	C-2-31	6	Ť			1	ł	4	0	2				1	3	2		┢	$\vdash\vdash\vdash$
Golden Delicious	C-2-50	<u> </u>	7	\vdash	\vdash	Ľ	ł	7		-				Ë	1	5	1	\vdash	$\vdash\vdash$
Golden Hubbard	C-2-49	0.2	0.2	0.2	0.2	6.2	1	<u> </u>		7					Ė	1	5	1	$\vdash\vdash$
Green Hokkaïdo	C-2-49 C-2-48	0.2	7	0.2	0.2	0.2	ł	-	7					3	4	H	٦	⊢-	Н
	C-2-46 C-2-47	-	7	\vdash	\vdash	-	ł	-	7						1	5	\vdash	1	Н
Kizombori Marina di Chioggia	C-2-47	5	2		\vdash		ł	1	5	1	4	3	\vdash		- '-	٦		⊢'-	Н
	C-2-46 C-2-45	5	7	_				<u> </u>	6	1	4	3						2	5
Pink Jumbo Banana		<u> </u>	7		_		ł	-	7	- '	7		-						ن ا
Potiron Rouge vif d'Etampes	C-2-44			_	\vdash	4	ł				1		4	2	4			\vdash	Ш
Tristar	C-2-43		4	2		1		4	3				1	2	4	2		\vdash	Ш
Vert Olive	C-2-42	<u> </u>	7	_	_	_	ł	1	6					_	5	2		<u> </u>	Ш
Zapallo grande de Guarda	C-2-41	2	4			1	l	5	1	1			1	4	2				Ш

ANNEX VII

CUCURBITA MAXIMA: SUMMARY OF STEP 2

Cucurbita maxima Step 2	Description according to characteristic 19 of document TG/155/3								
Official description of varieties	capped	transverse elliptic	circular	quadrangular	obovate	elliptic	narrow elliptic	rectangular	
Variety Name	1	2	3	4	5	6	7	8	
Atlantic Giant		1.5	0.5						
Big Max		0.5	0.5	1					
Black Forest			1						
Blue Banana							1		
Blue Hungarian Squash									
Bonbon	1								
Confection		1							
Crown Prince		2							
Dulce de Horno		1							
Evergreen							1		
Gigily		1							
Golden Debut		1							
Grand Luck									
Greenwich		1							
Hokkaido									
Hundred Weight									
Jaune Gros de Paris		1							
Jumbo		-	1						
Kokken									
Mini Green Hubbard					1				
New England Blue Hubbard									
North Georgia							1		
Olive									
Pacifica		1							
Prince Regent		1							
Prizewinner		•	1						
Queensland Blue									
Regal									
Rouge vif d'Etampes		2							
Valenciano									
Wart pumpkin									
Warted Hubbard									
Aladdin's Turban	1								
Blanche Plat White Boer		1							
Bleu de Hongrie		1							
Buttercup				1					
Chestnut Bush		1							
Courge du Perou		•				1			
Courge du Perou Courge olive									
Giraumon turban turc	1								
Golden Delicious									
Golden Delicious Golden Hubbard									
Green Hokkaïdo									
Kizombori									
Marina di Chioggia							1		
Pink Jumbo Banana		1					I		
Potiron Rouge vif d'Etampes		ı							
Tristar Vort Olive									
Vert Olive	-								
Zapallo grande de Guarda									

ANNEX VIII

CUCURBITA MAXIMA: COMMENTS SENT BY PARTICIPANTS

Comments sent by France

Exercise 1

Ad 15: hard to differentiate "transverse medium elliptic" and "transverse broad elliptic"

Ad 19: shape "trapezoid" and "narrow pear shaped" not used in this exercise

C-1-1: we hesitated between transverse elliptic and circular

C-1-12 and C-1-39: two different shapes on the picture

C-1-21, C-1-32 and C-1-42: no shape which corresponds. New shape to add?

C-1-27 and C-1-50: no shape which corresponds. New shape to add?

C-1-30: no view from the side

C-1-38, C-1-40: no shape which corresponds to Ad.19

Exercise 2

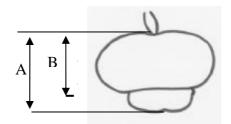
C-2-1: "Fruit: position of broadest part": it could be 1, 2 or 3 because the fruit is rectangular and quadrangular

C-2-19 and C-2-32: two different shapes on the picture

C-2-21: no view from the side

C-2-43: "Fruit: lateral outline": add the shape which looks like this fruit in the state 2 - rounded

Fruit: ratio height/diameter: for all the fruit "capped", do we take measure of the cap for the height (A)? or is it only (B)?



[&]quot;Fruit: lateral outline": state 4- flat taper not used in this exercise

Comments sent by the United Kingdom

Exercise 1

- C-1-27: left blank for characteristic 15. Perhaps reverse trapezoid?
- C-1-39: assessed on left hand pumpkin as difficult to make out the orientation of right hand pumpkin. It is difficult to make a judgement on a sample of two especially where there is a difference in shape.
- C-1-48: left blank for characteristic 15 as does not fit easily into the categories depicted.

[&]quot;Fruit: ratio height/diameter": We do not think that it is important to have the intermediate state as 2, 4, 6 and 8 for this characteristic.

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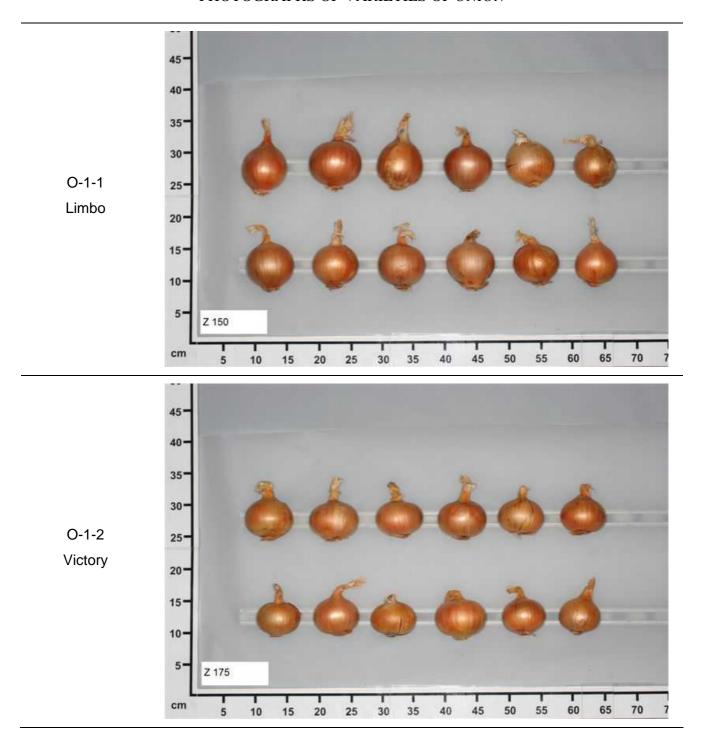
Exercise 2

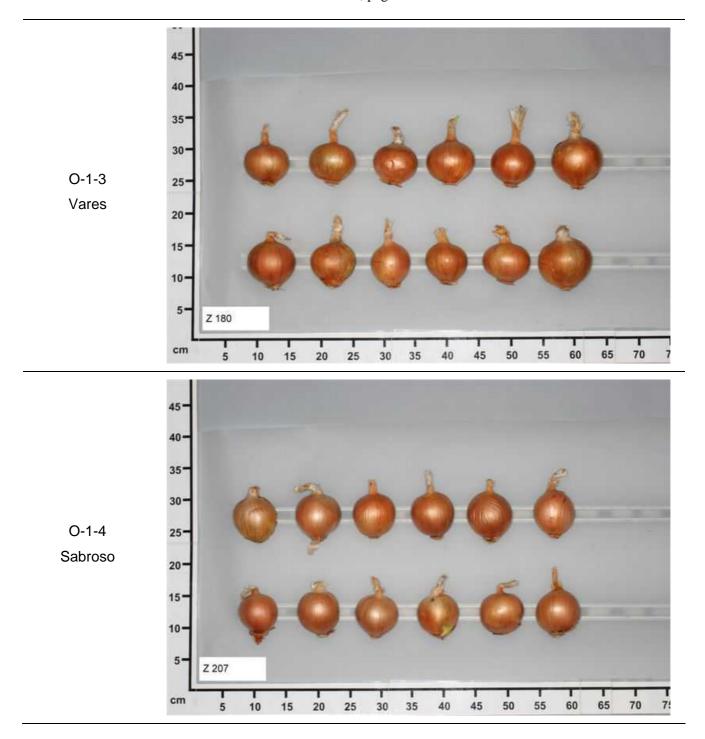
- C-2-24: left blank for lateral outline as does not fit easily into the categories depicted. It is almost a reverse of the flat taper.
- C-2-32: assessed on left hand pumpkin as difficult to make out the orientation of right hand pumpkin. It is difficult to make a judgement on a sample of two especially where there is a difference in shape.
- C-2-43: left blank for lateral outline as does not fit easily into the categories depicted.

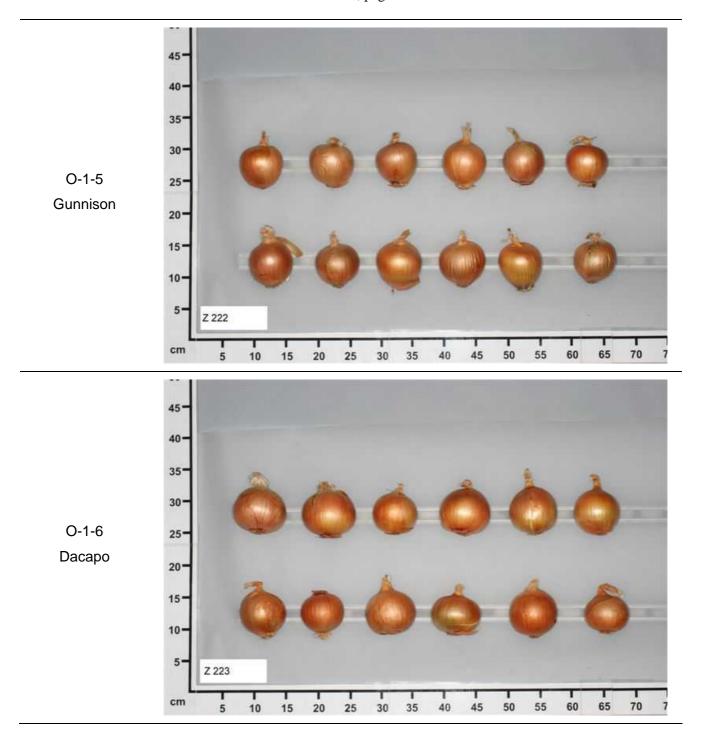
[Annex IX follows]

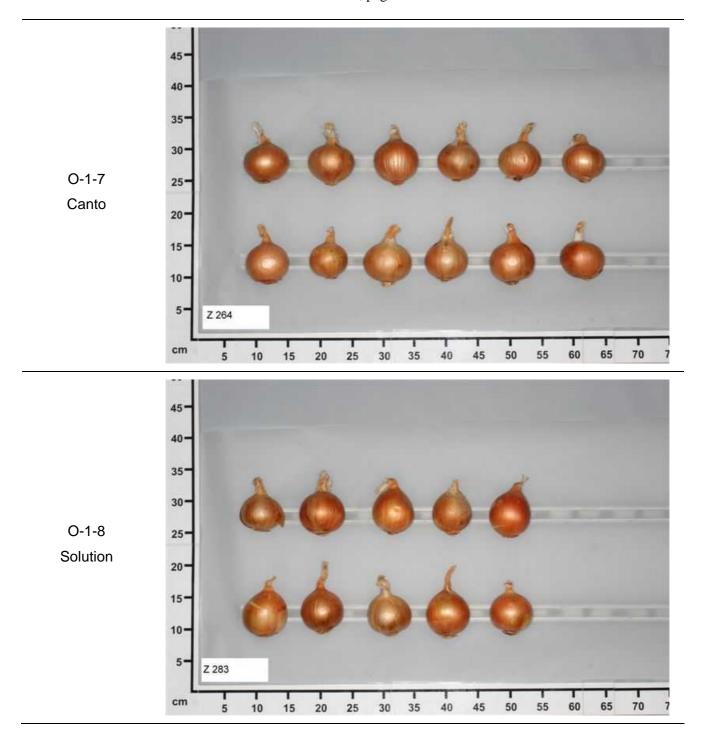
ANNEX IX

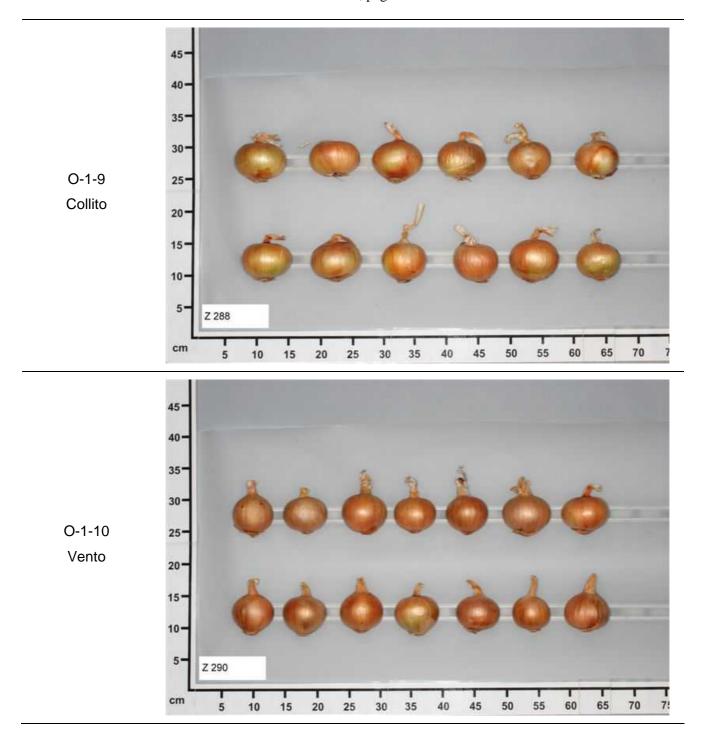
PHOTOGRAPHS OF VARIETIES OF ONION

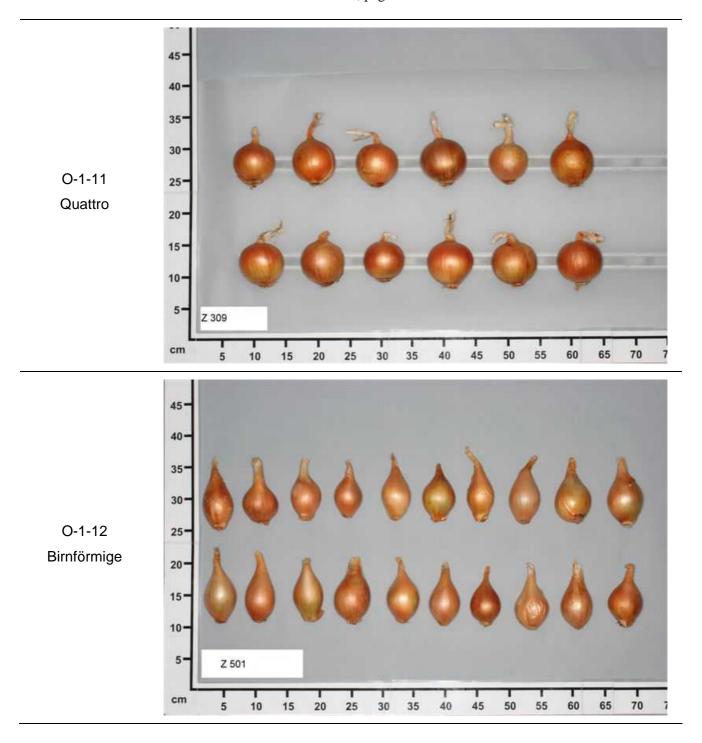


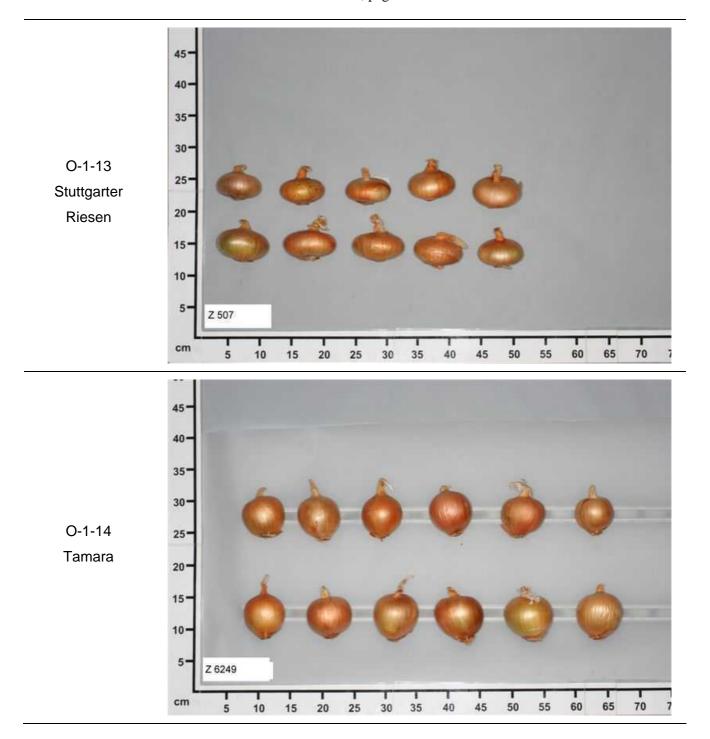


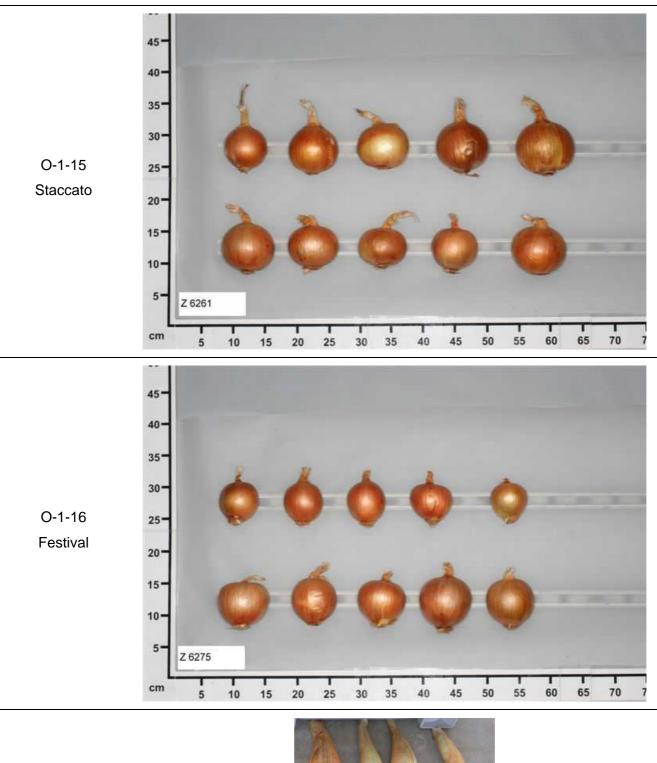










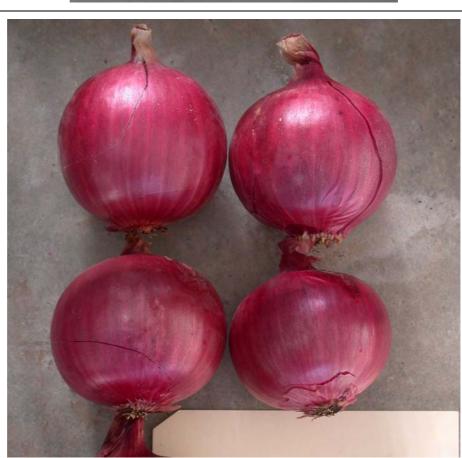


O-1-17 Houcadere





O-1-18 Barona



O-1-19 Campillo



O-1-20 Corito



O-1-21 De Toulouges

O-1-22 De la reine





O-1-23 Elad



O-1-24 Globruna



O-1-25 Piroska

O-1-26 Premier (1740)



O-1-27 Red Express





O-1-28 Redfort



O-1-29 Ribosa



O-1-30 Robin

[Annex X follows]

ANNEX X

PHOTOGRAPHS OF VARIETIES OF CUCURBITA MAXIMA DUCH.

C-1-1 Atlantic Giant



C-1-2 Big Max



C-1-3 Black Forest



C-1-4 Blue Banana



C-1-5 Blue Hungarian Squash



C-1-6 Bonbon



C-1-7 Confection



C-1-8 Crown Prince



C-1-9 Dulce de Horno



C-1-10 Evergreen



C-1-11 Gigily



C-1-12 Golden Debut



C-1-13 Grand Luck



C-1-14 Greenwich



C-1-15 Hokkaido



C-1-16 Hundred Weight



C-1-17 Jaune Gros de Paris



C-1-18 Jumbo



C-1-19 Kokken



C-1-20 Mini Green Hubbard



C-1-21 New England Blue Hubbard



C-1-22 North Georgia



C-1-23 Olive



C-1-24 Pacifica



C-1-25 Prince Regent



C-1-26 Prizewinner



C-1-27 Queensland Blue



C-1-28 Regal



C-1-29 Rouge vif d'Etampes



C-1-30 Valenciano



C-1-31 Wart pumpkin



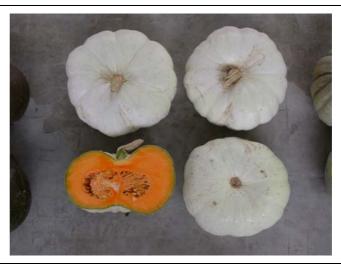
C-1-32 Warted Hubbard



C-1-33 Aladdin's Turban



C-1-34
Blanche Plat White Boer



C-1-35 Bleu de Hongrie



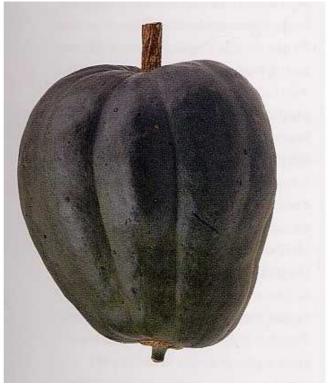
C-1-36 Buttercup



C-1-37 Chestnut Bush



C-1-38 Courge du Perou

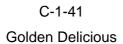


C-1-39 Courge olive



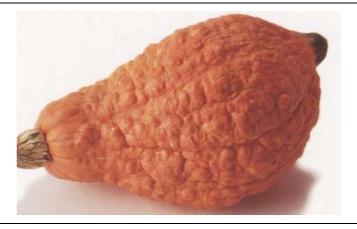


C-1-40 Giraumon turban turc



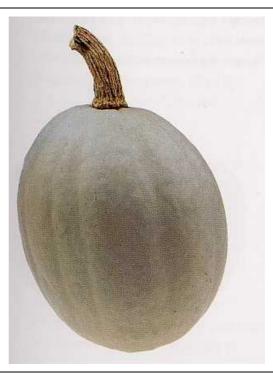


C-1-42 Golden Hubbard



C-1-43 Green Hokkaïdo

C-1-44 Kizombori



C-1-45 Marina di Chioggia



C-1-46 Pink Jumbo Banana

C-1-47 Potiron Rouge vif d'Etampes



C-1-48 Tristar



C-1-49 Vert Olive



C-1-50 Zapallo grande de Guarda



[End of Annex X and of document]