



PROTOCOL FOR TESTS ON DISTINCTNESS, UNIFORMITY AND STABILITY

Cucurbita maxima Duch.

PUMPKIN

UPOV Code: CUCUR_MAX

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1. SUBJECT OF THE PROTOCOL AND REPORTING

1.1 Scope of the technical protocol

This Technical Protocol applies to all varieties of *Cucurbita maxima* Duch..

The protocol describes the technical procedures to be followed in order to meet the requirements of Council Regulation 2100/94 on Community Plant Variety Rights. The technical procedures have been agreed by the Administrative Council and are based on documents agreed by the International Union for the Protection of New Varieties of Plants (UPOV), such as the General Introduction to DUS (UPOV Document TG/1/3 http://www.upov.int/export/sites/upov/resource/en/tg_1_3.pdf), its associated TGP documents (<http://www.upov.int/tgp/en/>) and the relevant UPOV Test Guideline TG/155/4 Rev. dated 28/03/2007 + 01/04/2009 (<http://www.upov.int/edocs/tgdocs/en/tg155.pdf>) for the conduct of tests for Distinctness, Uniformity and Stability.

1.2 Entry into Force

The present protocol enters into force on **01.03.2015**. Any on-going DUS examination of candidate varieties started before the aforesaid date will not be affected by the approval of the Technical Protocol. Technical examinations of candidate varieties are carried out according to the TP in force when the DUS test starts. The starting date of a DUS examination is considered to be the due date for submitting of plant material for the first test period.

In cases where the Office requests to take-over a DUS report for which the technical examination has either been finalized or which is in the process to be carried out at the moment of this request, such report can only be accepted if the technical examination has been carried out according to the CPVO TP which was in force at the moment when the technical examination started.

1.3 Reporting between Examination Office and CPVO and Liaison with Applicant

1.3.1 Reporting between Examination Office and CPVO

The Examination Office shall deliver to the CPVO a preliminary report ("the preliminary report") no later than two weeks after the date of the request for technical examination by the CPVO.

The Examination Office shall also deliver to the CPVO a report relating to each growing period ("the interim report") and, when the Examination Office considers the results of the technical examination to be adequate to evaluate the variety or the CPVO so requests, a report relating to the examination ("the final report").

The final report shall state the opinion of the Examination Office on the distinctness, uniformity and stability of the variety. Where it considers those criteria to be satisfied, or where the CPVO so requests, a description of the variety shall be added to the report. If a report is negative the Examination Office shall set out the detailed reasons for its findings.

The interim and the final reports shall be delivered to the CPVO as soon as possible and no later than on the deadlines as laid down in the designation agreement.

1.3.2 Informing on problems in the DUS test

If problems arise during the course of the test the CPVO should be informed immediately so that the information can be passed on to the applicant. Subject to prior permanent agreement, the applicant may be directly informed at the same time as the CPVO particularly if a visit to the trial is advisable.

1.3.3 Sample keeping in case of problems

If the technical examination has resulted in a negative report, the CPVO shall inform the Examination Office as soon as possible in case that a representative sample of any relevant testing material shall be kept.

2. MATERIAL REQUIRED

2.1 Plant material requirements

Information with respect to the agreed closing dates and submission requirements of plant material for the technical examination of varieties can be found on <http://cpvo.europa.eu/applications-and-examinations/technical-examinations/submission-of-plant-material-s2-publication> in the special issue S2 of the Official Gazette of the Office. General requirements on submission of samples are also to be found following the same link.

2.2 Informing the applicant of plant material requirements

The CPVO informs the applicant that

- he is responsible for ensuring compliance with any customs and plant health requirements.
- the plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 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.

2.3 Informing about problems on the submission of material

The Examination Office shall report to the CPVO immediately in cases where the test material of the candidate variety has not arrived in time or in cases where the material submitted does not fulfil the conditions laid down in the request for material issued by the CPVO.

In cases where the examination office encounters difficulties to obtain plant material of reference varieties the CPVO should be informed.

3. METHOD OF EXAMINATION

3.1 Number of growing cycles

Two independent growing cycles

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

The two independent growing cycles should be in the form of two separate plantings.

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" http://www.upov.int/edocs/tgpdocs/en/tgp_9.pdf.

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.

3.4 Test design

(a) Single plots

3.4.1 Each test should be designed to result in a total of at least 20 plants which should be divided between at least two replicates.

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

In accordance with Article 83(3) of Council Regulation No. 2100/94 an applicant may claim either in the Technical Questionnaire or during the test that a candidate has a characteristic which would be helpful in establishing distinctness. If such a claim is made and is supported by reliable technical data, an additional test may be undertaken providing that a technically acceptable test procedure can be devised.

Additional tests will be undertaken, with the agreement of the President of CPVO, where distinctness is unlikely to be shown using the characters listed in the protocol.

3.6 Constitution and maintenance of a variety collection

The process for the constitution and the maintenance of a variety collection can be summarized as follows:

Step 1: Making an inventory of the varieties of common knowledge

Step 2: Establishing a collection ("variety collection") of varieties of common knowledge which are relevant for the examination of distinctness of candidate varieties

Step 3: Selecting the varieties from the variety collection which need to be included in the growing trial or other tests for the examination of distinctness of a particular candidate variety.

3.6.1 Forms of variety collection

(a) Fruit species and seed propagated agricultural and vegetable species

3.6.1 The variety collection shall comprise variety descriptions and living plant material, thus a living reference collection. The variety description shall be produced by the EO unless special cooperation exists between EOs and the CPVO. The descriptive and pictorial information produced by the EO shall be held and maintained in a form of a database.

(b) Vegetatively propagated agricultural and vegetable species

3.6.1 The variety collection shall comprise variety descriptions; no living reference collection is required. The variety description shall be produced by the EO unless special cooperation exists between EOs and the CPVO. The descriptive and pictorial information produced by the EO shall be held and maintained in a form of a database.

3.6.2 Living Plant Material

(a) Fruit species and seed propagated agricultural and vegetable species

The EO shall collect and maintain living plant material of varieties of the species concerned in the variety collection.

(b) Vegetatively propagated agricultural and vegetable species and ornamental species

The EO shall obtain living plant material of reference varieties as and when those varieties need to be included in growing trials or other tests.

3.6.3 Range of the variety collection

The living variety collection shall cover at least those varieties that are suitable to climatic conditions of a respective EO.

3.6.4 Making an inventory of varieties of common knowledge for inclusion in the variety collection

The inventory shall take into account the list of protected varieties and the official, or other, registers of varieties, in particular:

The inventory shall include varieties protected under National PBR (UPOV contracting parties) and Community PBR, varieties registered in the Common Catalogue, the OECD list, the Conservation variety list and varieties in trade or in commercial registers for those species not covered by a National or the Common Catalogue.

3.6.5 Maintenance and renewal/update of a living variety collection

(a) Seed propagated species

The EO shall maintain seeds in conditions which will ensure germination and viability, periodical checks, and renewal as required. For the renewal of existing living material the identity of replacement living plant material shall be verified by conducting side-by-side plot comparisons between the material in the collection and the new material.

(b) Vegetatively propagated species

The EO shall maintain the variety collection under appropriate growing conditions (e.g. glasshouse, orchard, in vitro), where it shall be ensured that the plants are adequately irrigated, fertilised, pruned and protected from harmful pests and diseases. For the renewal of existing living material the identity of replacement living plant material shall be verified by conducting side-by-side plot comparisons between the material in the collection and the new material or by checking the identity of the new material against the variety description.

4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY

The prescribed procedure is to assess distinctness, uniformity and stability in a growing trial.

4.1 Distinctness

4.1.1 General recommendations

It is of particular importance for users of this Technical Protocol to consult the UPOV-General Introduction to DUS (link in chapter 1 of this document) and TGP 9 'Examining Distinctness' (http://www.upov.int/edocs/tgpdocs/en/tgp_9.pdf) prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in this Technical Protocol.

Further guidance is provided in documents TGP/9 "Examining Distinctness" and TGP/8 "Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability".

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 Technical Protocols are familiar with the recommendations contained in the UPOV-General Introduction to DUS 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 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test, disregarding any off-type plants.

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 third 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.

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

It is of particular importance for users of this Technical Protocol to consult the UPOV-General Introduction to DUS (link in chapter 1 of this document) and TGP 10 'Examining Uniformity' (http://www.upov.int/edocs/tgpdocs/en/tgp_10.pdf) prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in this Technical Protocol:

(a) Cross-pollinated varieties

The assessment of uniformity should be according to the recommendations for cross-pollinated varieties in the UPOV-General Introduction to DUS.

(b) Hybrid varieties, inbred lines

For the assessment of uniformity of hybrid varieties and inbred lines, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 2 off-type are allowed. In addition a population standard of 2% with the same acceptance probability should be applied to clearly recognisable inbred plants. In the case of a sample size of 20 plants, 2 off-types are allowed.

4.3 Stability

4.3.1 It is of particular importance for users of this Technical Protocol to consult the UPOV-General Introduction to DUS (link in chapter 1 of this document) and TGP 11 'Examining Stability' (http://www.upov.int/edocs/tgpdocs/en/tgp_11.pdf).

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. 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) Plant: length of main stem (characteristic 2)
- (b) Fruit: length (characteristic 12)
- (c) Fruit: diameter (characteristic 13)
- (d) Fruit: shape (characteristic 15)
- (e) Fruit: profile at blossom end (flower scar included) (characteristic 18)
- (f) Fruit: number of colours of skin (characteristic 22)
- (g) Fruit: main colour of skin (characteristic 23)

5.4 If other characteristics than those from the TP are used for the selection of varieties to be included into the growing trial, the EO shall inform the CPVO and seek the prior consent of the CPVO before using these characteristics.

6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS

6.1 Characteristics to be used

The characteristics to be used in DUS tests and preparation of descriptions shall be those referred to in the table of characteristics. All the characteristics shall be used, providing that observation of a characteristic is not rendered impossible by the expression of any other characteristic, or the expression of a characteristic is prevented by the environmental conditions under which the test is conducted or by specific legislation on plant health. In the latter case, the CPVO should be informed.

The Administrative Council empowers the President, in accordance with Article 23 of Commission Regulation N°874/2009, to insert additional characteristics and their expressions in respect of a variety.

Technical Protocols with asterisked characteristics (only for certain vegetable species)

In the case of disease resistance characteristics, only those resistances marked with an asterisk (*) in the CPVO column are compulsory.

States of expression and corresponding notes

In the case of qualitative and pseudo-qualitative characteristics, 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 Example Varieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.3 Legend

For the CPVO N° column:

G Grouping characteristic – see Chapter 5
(*) Asterisked characteristic – see Chapter 6.1.2

MG, MS, VG, VS – see Chapter 4.1.5
QL Qualitative characteristic
QN Quantitative characteristic
PQ Pseudo-qualitative characteristic

(a)-(b) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2

For the UPOV N° column:

The numbering of the characteristics is provided as a reference to the ad hoc UPOV guideline.

(*) UPOV Asterisked characteristic – Characteristics that are important for the international harmonization of variety descriptions.

7. TABLE OF CHARACTERISTICS

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
1.	1.	VG	Seedling: shape of cotyledons		
PQ			medium elliptic	Uchiki Kuri	1
			broad elliptic	Bush Prince, Jaune Gros de Paris	2
			obovate	Big Max, Pacifica	3
2.	2. (*)	VG	Plant: length of main stem		
QN		(a)	very short	Golden Nugget	1
			short	Sweet Mama	3
			medium		5
			long	Jaune Gros de Paris	7
G			very long	Green Hubbard	9
3.	3.	VG	Leaf blade: size		
QN		(a)	very small	Earli Dri-Crown, Royal Crown	1
			small	Baby Blue, Bush Grey, Star 7025	3
			medium	Delica, Marlborough Grey	5
			large	Jaune Gros de Paris, Star 7020, Star 7024	7
			very large		9
4.	4.	VG	Leaf blade: margin		
(+)		(a)	entire or very weakly incised	Platt White Boer	1
QN			weakly incised		2
			moderately incised		3
5.	5. (*)	VG	Leaf blade: intensity of green colour of upper side		
QN		(a)	light	Elza	3
			medium	Delica, Jamboree, Royal Crown	5
			dark	Japan Cup, Star 7020	7

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
6. QN	6.	VG (a)	Petiole: length		
			short	Crown Prince, Doux d'Okkaido, Earli-Dri Crown	3
			medium	Bush Prince, Sweet Mama	5
			long	Star 7020, Uchiki Kuri	7
7. QN	7.	VG (a)	Petiole: diameter (at base)		
			small	Crown Prince, Maxi Prince, Uchiki Kuri	3
			medium	Bush Prince, Delica	5
			large	Gladiator, Star 7020	7
8. QN	8.	VG	Female flower: length of sepal		
			short	Uchiki Kuri	3
			medium	Jaune Gros de Paris, Pacifica	5
			large	Crown Prince, Elza	7
9. QN	9.	VG	Male flower: length of sepal		
			short	Delica, Turks Turban	3
			medium	Hubbard Blue	5
			long	Big Moon	7
10. QN	10.	VG (b)	Peduncle: length		
			short		3
			medium		5
			long		7
11. QN	11.	VG (b)	Peduncle: diameter		
			small		3
			medium		5
			large		7

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
12.	12. (*)	MG/VG	Fruit: length		
QN		(b)	very short	Golden Nugget	1
			short	Uchiki Kuri	3
			medium	Golden Hubbard	5
			long	Big Moon	7
G			very long	Banana Pink Jumbo	9
13.	13. (*)	MG/VG	Fruit: diameter		
(+)		(b)	small	Uchiki Kuri	3
QN			medium		5
			large	Big Max, Rouge vif d'Etampes	7
G			very large	Prizewinner	9
14.	14.	MG/VG	Fruit: ratio length/diameter		
QN		(b)	very small		1
			small		3
			medium		5
			large		7
			very large		9

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
15.	15. (*)	VG	Fruit: shape		
(+)		(b)	heart shaped	Golden Delicious	1
PQ			capped	Giraumon Turban, Turks Turban	2
			transverse medium elliptic	Sweet Mama	3
			transverse broad elliptic	Jaune Gros de Paris, Mammouth	4
			circular	Big Mama	5
			narrow elliptic	Banana	6
			medium elliptic	Banana Pink Jumbo	7
			rectangular		8
			trapezoid		9
			broad pear shaped	Doux d'Okkaïdo, Green Baby	10
			narrow pear shaped		11
			Hubbard type	Golden Hubbard, New England Blue Hubbard	12
G			tri-lobed	Tristar	13
16.	16. (*)	VG	Fruit: position of broadest part		
QN		(b)	towards stem end	Golden Delicious	1
			at middle	Rouge vif d'Etampes	2
			towards blossom end	Golden Hubbard	3
17.	17. (*)	VG	Fruit: profile at stem end		
(+)		(b)	raised	Green Chicago Warted	1
QN			flat	Delica	2
			slightly depressed	Crown Prince	3
			moderately depressed		4
			strongly depressed	Tristar	5

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
18.	18. (*)	VG	Fruit: profile at blossom end (flower scar included)		
(+)			depressed	Rouge vif d'Etampes	1
QN		(b)	flat		2
G			raised	Hubbard Blue	3
19.	19. (*)	VG	Fruit: grooves		
QL		(b)	absent	Pacifica	1
			present	Marlborough Grey	9
20.	20.	VG	Fruit: distance between grooves		
QN		(b)	small		3
			medium	Regal Early	5
			large	Big Moon	7
21.	21.	VG	Fruit: depth of grooves		
QN		(b)	shallow		3
			medium		5
			deep		7
22.	22. (*)	VG	Fruit: number of colours of skin		
PQ		(b)	one	Gladiator	1
			two colour intensities (with clear borders)	Giraumon Turban	2
			two colour hues	Delica	3
G			more than two colour hues or intensities	Turks Turban	4

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
23.	23. (*)	VG	Fruit: main colour of skin		
(+)		(b)	white	Valenciano	1
PQ			cream		2
			yellow	Jaune Gros de Paris	3
			orange	Regal Early	4
			red	Rouge vif d'Etampes	5
			pink	Giraumon Turban	6
			green	Delica, Pacifica	7
			grey green	Japan Cup, Star 7024	8
G			grey	Baby Blue, Early Jarrah Grey, Hubbard Blue	9
24.	24.	VG	<u>Excluding varieties with main colour of skin: cream or white:</u> Fruit: intensity of main colour of skin		
(+)		(b)	light		3
QN			medium		5
			dark		7
25.	25. (*)	VG	<u>Only varieties with two or more colour hues:</u> Fruit: secondary colour of skin		
(+)		(b)	white		1
PQ			cream		2
			yellow		3
			orange	Golden Hubbard	4
			red		5
			pink	Pink Jumbo Banana	6
			green		7
			grey green		8
			grey		9

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note		
26.	26. (*)	VG	Only varieties with two or more colour hues: Fruit: intensity of secondary colour of skin				
				(+)	Light	3	
				QN	Medium	5	
					Dark	7	
27.	27. (*)	VG	Only varieties with two or more colour hues or intensities: Fruit: distribution of secondary colour of skin				
				(+)	only patches	Atlantic Giant	1
				PQ	patches and stripes	Delica	2
					only stripes	Turks Turban	3
28.	28.	VG	Fruit: texture of surface				
				QL	smooth	Rouge vif d'Etampes, Uchiki Kuri	1
					rough	Blue Hubbard, Delica	2
					warted	Chicago Warted Hubbard	3
					bullate	Marina di Chioggia	4
29.	29. (*)	VG	Fruit: cork formation				
				(+)	absent or very sparse	Rouge vif d'Etampes	1
				PQ	in dots	Jaune Gros de Paris	2
					netted	Brodée Galeuse d'Eysine	3
30.	30.	VG	Fruit: thickness of cork				
				QN	thin	Jaune Gros de Paris	3
					medium		5
					thick	Brodée Galeuse d'Eysine	7
31.	31.	VG	Fruit: diameter of flower scar				
				QN	small	Blue Hubbard, Ponderosa	3
					medium	Pacific King	5
					large	Crown Prince, Turks Turban	7
					very large		9

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
32.	32. (*)	VG	Fruit: main colour of flesh		
PQ		(b)	yellow	Giraumon Turban, Pondorosa, Star 7024	1
			orange	Jamboree	2
			reddish orange	Rouge vif d'Etampes	3
33.	33. (*)	VG	Seed: size		
QN		(b)	small	Chestnut Bush	3
			medium	Pink Jumbo Banana	5
			large	Bleu de Hongrie	7
34.	34. (*)	VG	Seed: shape		
QN		(b)	narrow elliptic	Plat White Boer	1
			medium elliptic	Chestnut Bush	2
			broad elliptic	Jarrahdale	3
35.	35. (*)	VG	Seed: colour of coat		
PQ		(b)	white	Jaune Gros de Paris	1
			cream		2
			light brown	Uchiki Kuri	3

8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS

8.1 Explanations covering several characteristics

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

- (a) Observations which should be made on fully developed leaves, when the first fruit is fully developed.
- (b) Observations which should be made on fully developed fruit at maturity.

8.2 Explanations for individual characteristics

Ad. 3: Leaf blade: margin



1
entire or very weakly incised



2
weakly incised



3
moderately incised

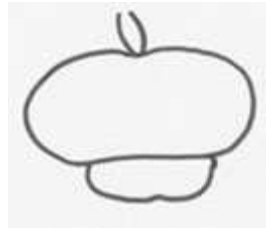
Ad. 13: Fruit: diameter

The diameter should be observed at the broadest part.

Ad. 15: Fruit: shape



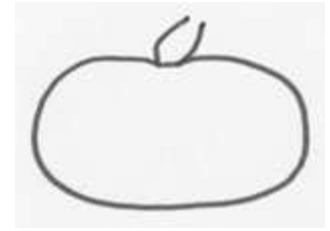
1
heart shaped



2
capped



3
transverse medium elliptic



4
transverse broad elliptic



5
circular



6
narrow elliptic



7
medium elliptic



8
rectangular



9
trapezoid



10
broad pear shaped



11
narrow pear shaped

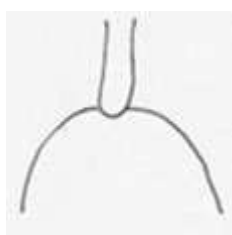


12
Hubbard type

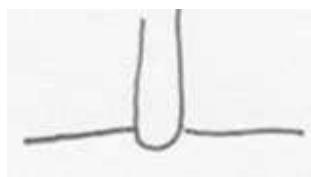


13
tri-lobed

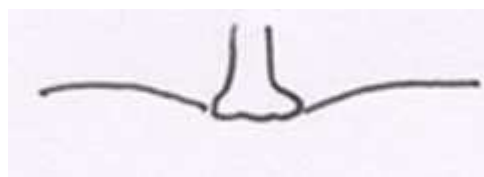
Ad. 17: Fruit: profile at stem end



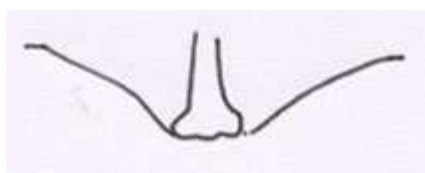
1
raised



2
flat



3
slightly depressed



4
moderately depressed



5
strongly depressed

Ad. 18: Fruit: profile at blossom end (flower scar included)



1
depressed



2
flat



3
raised

Ad. 23: Fruit: main colour of skin

Ad. 24: Fruit: intensity of main colour of skin (except for white and cream main colour of skin)

Ad. 25: Only varieties with two or more colour of hues: Fruit: secondary colour of skin

Ad. 26: Only varieties with two or more colour of hues: Fruit: intensity of secondary colour of skin

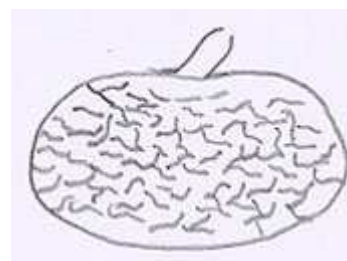
Ad. 27: Only varieties with two or more colour of hues or intensities: Fruit: distribution of secondary colour of skin

The main colour is the colour with the largest area over the whole fruit excluding the scar area. The secondary colour is the color with the second largest area over the whole fruit excluding the scar area.

Ad. 29: Fruit: cork formation



2
in dots



3
netted

8.3 Synonyms of example varieties

Example variety	Synonyms
Platt White Boer	Plat White Boer, Platt, Wit Boer, Blanche Platt White Boer, Flat White Boer

9. LITERATURE

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10. TECHNICAL QUESTIONNAIRE

The Technical Questionnaire is available on the CPVO website under the following reference: CPVO-TQ/155/1