

CODEX ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of
the United Nations



World Health
Organization

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JOINT FAO / WHO FOOD STANDARDS CODEX COMMITTEE ON FRESH FRUITS AND VEGETABLES

19th meeting

Ixtapa Zihuatanejo, Guerrero, México, October 5 – 9 October 2015

Report of the Physical Session of CCFV Standard Layout Working Group.

The WG met during the 19th Session of CCFV and considered comments submitted on the proposed Standard Layout along with the report of the eWG which was circulated in advance of the meeting. The sections of the Standard Layout were discussed in sequential order with the following outcomes:

- Introduction:** New text explaining the brackets used to indicate optional text.
- Scope:** The previous introductory text to quality requirements was agreed to become the new scope.
- Definitions of produce:** Adjustments to correctly use botanical names and references were included.
- Minimum requirements:** With reference to pests an explanatory note was attached recognizing the IPPC.
- Minimum maturity requirements:** The term “ripeness” was replaced by maturity in the opening paragraph.
- Classification:** The existing classification provisions were agreed to as option 1 and the proposed shorter version tied to a table of tolerances as option 2.
- Sizing:**
- It was agreed that sizing should not be tied to classification unless there is a direct correlation between size and sufficient development/maturity or market acceptance.
 - An option for sizing by length was introduced.
 - A reference omitting miniature produce from the sizing requirements was introduced.
 - A guide on the layout for sizing tables was introduced.

Size code		Weight/Fruit (g)	Number of fruit/kg
1	A	Largest weight	Smallest number
2	B		
3	C		
4	D	Smallest weight	Largest number

Tolerances:

- The tolerances for decay were set at 1 % for Class Extra, 1 % for Class I and 2 % for Class II with the reminder that these tolerances can be adjusted based upon the characteristics of the produce being standardized. There was no unanimous consensus on the value for Class Extra.
- Option 2 using a table of tolerances was accepted.

Uniformity: The text on mixtures of produce was reconfirmed for inclusion.

Packaging: It was agreed to replace the term “new” with “food grade quality”. The corresponding footnote was deleted.

Labelling: For non-retail containers, a text was introduced to reflect electronic documentation being used in trade.

Food additives: The table on food additives was deleted in line with CAC recommendation and paragraphs were introduced for treated and untreated FFV which referenced the GSFA.

Methods for analysis and sampling: The Codex Secretariat will provide the appropriate text for this section.

Glossary: It was agreed that a glossary was needed and countries were asked to submit their comments to the delegation of Mexico.

UNRESOLVED ISSUES:

3. **PROVISIONS CONCERNING SIZING: Point E:-** Definition of Miniature produce
4. **PROVISION CONCERNING TOLERANCES:**
 - (I) Inclusion of Tolerances for Decay, soft Rot and internal Breakdown in Extra Class
 - (II) Tolerance percentage of 1% in Extra Class
- 6.2 **Non-Retail Containers:-** First Paragraph bracketed texts.

ANNEX I

PROPOSED LAYOUT FOR CODEX STANDARDS FOR FRESH FRUITS AND VEGETABLES

Codex Standard for {name of produce}

CODEX STAN {number of the Standard} {year of the first adoption}

INTRODUCTION

- This Layout is for use by the Codex Committee on Fresh Fruits and Vegetables (CCFFV);
- The Standard Layout must be followed when developing new or revising existing Codex/FFV Standards. However, it is permissible to use other appropriate texts in the Standard Layout to reflect individual FFV characteristics.

In the text the following conventions are used:

- {name of produce} must be replaced by the common name of the produce to be covered by the standard.
- {text}: For text which explains the use of the Standard Layout. This text does not appear in the standards.
- <text>: For optional texts or text for which several alternatives exist, depending on the products. Depending on the nature of produce the provision(s) in brackets may be removed as not applicable/necessary.

SCOPE:

The purpose of the standard is to define the quality requirements for {name of produce} at the export-control stage after preparation and packaging. However, if applied at stages following packaging, products may show in relation to the requirements of the standard:

- a slight lack of freshness and turgidity;
- <for products graded in classes other than the “Extra” Class,> a slight deterioration due to their development and their tendency to perish.

The holder/seller of products may not display such products or offer them for sale, or deliver or market them in any manner other than in conformity with this standard. The holder/seller shall be responsible for observing such conformity.

1. DEFINITION OF PRODUCE

This Standard applies to <part of the produce being standardized of>⁵ commercial varieties (cultivars) of {name(s) of produce} grown from {Latin botanical reference¹ from the ... family to be supplied fresh to the consumer. <{Name of produce} for industrial processing is/are excluded.>⁷.

{The Latin botanical reference is given in accordance with the International Code of Botanical Nomenclature.-

{Additional provisions concerning the definition of the produce may be included under is heading.}⁸

2. PROVISIONS CONCERNING QUALITY

2.1 MINIMUM REQUIREMENTS

In all classes, subject to the special provisions for each class and the tolerances allowed, the {name of produce} must be:

- intact {depending on the nature of the produce, a deviation from the provision or additional provisions are allowed};
- sound; produce affected by rotting or deterioration such as to make it unfit for consumption is excluded;
- firm
- clean, practically free of any visible foreign matter;

¹ All information on botanical names is taken from the GRIN database (www.ars-grin.gov) or Mansfeld's World Database of Agricultural and Horticultural Crops (<http://mansfeld.ipk-gatersleben.de/apex/?p=185:3:0>) or any other suitable database.

- practically free from pests;
- practically free of damage caused by pests {For FFV with edible skin};
- free of damage caused by pests affecting the flesh {For FFV with inedible skins or skins that are peeled off prior to consumption};

{Provisions for pests and damage caused by pests apply without prejudice to the applicable plant protection rules applied by governments in line with the International Plant Protection Convention (IPPC).}

- free of abnormal external moisture excluding condensation following removal from cold storage;
- free of any foreign smell and/or taste;
- fresh in appearance;
- free of damage caused by low and/or high temperature;
- {Additional provisions may be made for specific FFV standards, depending on the nature of the produce}.

The development and condition of the {name of produce} must be such as to enable them:

- To withstand transportation and handling; and
- To arrive in satisfactory condition at the place of destination.

2.1.1 Minimum Maturity Requirements

The {name of produce} must have reached an appropriate degree of development and/or maturity in accordance with criteria proper to the variety <and/or commercial type>, at the time of harvesting/picking/etc.>, and to the area in which they are grown.

The {name of produce} must display sufficient development for the intended purpose in accordance with criteria appropriate to the variety and to the area in which they are grown. {for non-climacteric fruit}

The development and state of maturity of {name of produce} must be such as to enable them to continue their ripening process and to reach the degree of ripeness required in relation to the varietal characteristics <and the growing area>. {for climacteric fruit}

<The {name of produce} must be sufficiently developed and display such in relation to the varietal characteristics <and the growing area>.

2.2 CLASSIFICATION

OPTION 1 – Existing text

2.2.1 “Extra” Class

{Name of produce} in this class must be of superior quality. They must be characteristic of the variety <and/or commercial type>. They must be free from defects, with the exception of very slight superficial defects, provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package.

<They must be:

.....

>

{Add additional Provisions/defects allowed, depending on the nature of the produce.}

2.2.2 Class I

{Name of produce} in this class must be of good quality. They must be characteristic of the variety <and/or commercial type>.

<They must be:

.....

>

{Add additional Provisions/defects allowed, depending on the nature of the produce.}

The following slight defects, however, may be allowed, provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package:

- a slight defect in shape;
- slight defects in colouring;
- slight skin defects;

.....

{Add additional provisions/defects allowed, depending on the nature of the produce.}

<The defects must not, in any case, affect the [flesh/pulp/etc.] of the [fruit, produce, being standardized or {name of produce}].>

2.2.3 Class II

This class includes {name of produce} that do not qualify for inclusion in the higher classes but satisfy the minimum requirements specified in Section 2.1 above.

<They must be:

.....

{Add additional provisions/defects allowed, depending on the nature of the produce.}

The following defects may be allowed, provided the {name of produce} retain their essential characteristics as regards the quality, the keeping quality and presentation:

- defects in shape;
- defects in colouring;
- skin defects;
- <The flesh must be free from major defects.>

CLASSIFICATION

OPTION 2: – alternative in connection with table on tolerances

In accordance with <sizing requirements in Section 3 - Provision Concerning Sizing (when applicable) and> Section 4 - Provisions concerning Tolerances, {name of produce} are classified into the following class(es).

“Extra” Class, Class I and Class II.

5. PROVISIONS CONCERNING SIZING

{Sizing should not be a factor in classification unless there is a direct correlation between size and sufficient development and market acceptance.}

{Name of produce} may be sized by <diameter, count, length or weight>; <or in accordance with existing trading practices. When sized in accordance with existing trading practices, the package must be labelled with the size and method used.>

When sized by count, size is determined by the number of individual fruit per package <in accordance with the following table>. <The following table is a guide and may be used on an optional basis.>

- (A) *When sized by length, size is determined by the length of the longitudinal axis <excluding the peduncle> of the product.*
- (B) When sized by diameter, size is determined by either the maximum diameter of the
- (C) equatorial section of each fruit or a diameter range per package {in accordance with the following table}. The following table is a guide and may be used on an optional basis.
- (D) When sized by weight, size is determined based on the individual weight of each fruit or a weight range per package. The following table is a guide and may be used on an optional basis.
- (E) The minimum size shall be {should be only defined in cases to guarantee sufficient development}

[[In case minimum sizes are established the size requirements might not apply to miniature produce: < The size requirements shall not apply to miniature produce. – *Miniature produce means produce obtained from a variety or cultivar of vegetable, obtained by plant breeding and/or special cultivation techniques. All other requirements of the standard must be met.*>]]

(F) <There is no sizing requirement for {name of produce, variety, commercial type or class depending on the nature of produce}.>

<To ensure uniformity in size, the range in size between produce in the same package shall not exceed ...>

- (a) For fruit sized by diameter: x mm.
- (b) For fruit sized by weight: x grams.
- (c) For fruit sized by count: the difference in size should be consistent with the difference indicated in point (a).
- (d) In case size codes are applied, the codes and ranges in the following table have to be respected:

<There is no sizing uniformity requirement for Class II.>

When tables and size codes are used to define uniformity in size, the size codes should be arranged in descending order as follows:

	Size code	Weight/Fruit (g)	Number of fruit/kg
1	A	Largest weight	Smallest number
2	B		
3	C		
4	D	Smallest weight	Largest number

{Provisions can be added on minimum and maximum sizes and size range, depending on the nature of produce, the variety, the commercial type and possibly the individual classes}.

4. PROVISIONS CONCERNING TOLERANCES

4.1 QUALITY TOLERANCES

OPTION 1: Classification/Tolerances:

At all marketing stages, tolerances in respect of quality and size shall be allowed in each lot for produce not satisfying the requirements of the class indicated. Produce that fail conformity assessment, may be allowed to be resorted and brought into conformity in accordance with the Guidelines on Food Import and Export Inspection and Certification (CCFICS) Guideline 47-2003 sections 9, 10 and 27.

4.1.1 “Extra” Class

Five percent [5.0%], by number or weight, of {name of produce} not satisfying the requirements of the class, but meeting those of Class I. Included therein, is [one] percent tolerance for decay, soft rot and/or internal breakdown.

{Add possible tolerances for individual defects, depending on the nature of the produce.}

4.1.2 Class I

Ten percent, [10.0%] by number or weight, of {name of produce} not satisfying the requirements of the class, but meeting those of Class II. Included therein, is [one] percent tolerance for decay, soft rot and/or internal breakdown.

{Add possible tolerances for individual defects, depending on the nature of the produce.}

4.1.2 Class II

Ten percent, [10.0%] by number or weight, of {name of produce} not satisfying the requirements of the class. Included therein, is [two] percent [tolerance for decay, soft rot and/or internal breakdown

{Add possible tolerances for individual defects, depending on the nature of the produce.}

{The percentages for decay shall be adapted to the characteristics of the produce.}

4.2 SIZE TOLERANCES

For all classes if sized: Ten percent [10.0%] by number or weight of {name of produce} not satisfying the requirements as regards to sizing.

OPTION 2 – Classification/Tolerances

Provisions concerning tolerances

At all marketing stages, tolerances in respect of quality and size shall be allowed in each lot for produce not satisfying the requirements of the class indicated. Produce that fail conformity assessment, may be allowed to be resorted and brought into conformity in accordance with the Guidelines on Food Import and Export Inspection and Certification (CCFICS) Guideline 47-2003 sections 9, 10 and 27.

Quality Tolerances	Tolerances allowed percentage of defective produce by count or weight		
	Extra Class	Class I	Class II
Total Tolerance {name of products} not satisfying the quality requirements	5	10	10
of which no more than {examples given below}			
- Condition (Progressive) Defects Shriveling Unhealed bruises Mechanical Damage Pest damage			
- Quality (Non-Progressive) Defects Sunburn Misshapen Immature/not sufficiently develope			
[- Decay, soft rot, internal breakdown	1	1	2]
Additional tolerances			
(a) Size Tolerances- off size from what is indicated/marked	10	10	10
(b) Produce belonging to other similar varieties than marked			

{Additional condition and quality factors may be added depending on the product characteristics.}

{The percentages for decay shall be adapted to the characteristics of the produce.}

5. PROVISIONS CONCERNING PRESENTATION

5.1 UNIFORMITY

The contents of each package <(or lot for produce presented in bulk in the transport vehicle)> must be uniform and contain only {name of produce} of the same origin, quality and size <(if sized)>.

<However, a mixture of {name of produce} of distinctly different <species> <varieties> <commercial types> <colours> may be packed together in a <package> <sales package>, provided they are uniform in quality and, for each <species> <variety> <commercial type> <colour> concerned, in origin.>

{It is recommended, not to require uniformity in size for this type of mixtures.}

{In addition, for individual standards, uniformity concerning variety and/or commercial type may be laid down, depending on the nature of the produce.}

{If specific requirements, including net weight limits of sales packages, are needed, they can be added within the context of individual standards.}

{Other possible provisions, depending on the nature of the produce.}

The visible part of the contents of the package <(or lot for produce presented in bulk in the transport vehicle)> must be representative of the entire contents.

5.2 PACKAGING

{Name of produce} must be packed in such a way as to protect the produce properly. The materials used inside the package must be of food-grade quality, clean, and of a quality such as to avoid causing any external or internal damage to the produce. The use of materials, particularly of paper or stamps bearing trade specifications, is allowed, provided the printing or labelling has been done with non-toxic ink or glue.

<Stickers individually affixed to the produce shall be such that, when removed, they neither leave visible traces of glue nor lead to skin defects.>

{Name of produce} shall be packed in each container in compliance with the Code of Practice for

Packaging and Transport of Fresh Fruits and Vegetables (CAC/RCP 44-1995).

5.2.1 Description of Containers

The container shall meet the quality, hygiene, ventilation and resistance characteristics to ensure suitable handling, shipping and preserving of the {name of produce}.

Packages <(or lots for produce presented in bulk)> must be free of all foreign matter and smell.

6. PROVISIONS CONCERNING MARKING OR LABELLING

6.1 CONSUMER PACKAGES

In addition to the requirement of the General Standard for the Labelling of Pre-packaged Foods (CODEX STAN 1- 1985), the following specific provisions apply:

6.1.1 Nature of Produce

Each package shall be labelled as to the name of the produce and may be labelled as to name of the variety <and/or commercial type>.

6.1.2 Origin of Produce

Country of origin² and, optionally, district where grown, or national, regional or local place name.

6.2 NON-RETAIL CONTAINERS

Each package must bear the following particulars, in letters grouped on the same side, legibly and indelibly marked, and visible from the outside or [in the documents accompanying the shipment:]

<For {name of produce} transported in bulk (direct loading into a transport vehicle) these particulars must appear on a document accompanying the goods, and attached in a visible position inside the transport vehicle unless the document is replaced by an electronic solution. In that case the identification must be machine readable and easily accessible.>

6.2.1 Identification

Name and address of exporter, packer and/or dispatcher. Identification code (optional)³.

<Packer and/or dispatcher/shipper: Name and physical address (e.g. street/city/region/postal code and, if different from the country of origin, the country) or a code mark officially recognized by the national authority⁴.

6.2.2 Nature of Produce

- Name of the produce <-name of the variety [and/or commercial type] (optional)>
- <The name of the variety can be replaced by a synonym. A trade name⁵ can only be given in addition to the variety or the synonym>
- <name of the variety. In the case of a mixture of {name of produce} of distinctly different varieties <species>, names of the different varieties <species>.>
- <"Mixture of {name of produce}" , or equivalent denomination, in the case of a mixture of distinctly

² The full or a commonly used name should be indicated.

³ The national legislation of a number of countries requires the explicit declaration of the name and address. However, in the case where a code mark is used, the reference "packer and/or dispatcher (or equivalent abbreviations)" has to be indicated in close connection with the code mark.

⁴ The national legislation of a number of countries requires the explicit declaration of the name and address. However, in the case where a code mark is used, the reference "packer and/or dispatcher (or equivalent abbreviations)" has to be indicated in close connection with the code mark, and the code mark should be preceded by the ISO 3166 (alpha) country/area code of the recognizing country, if not the country of origin.

⁵ A trade name can be a trade mark for which protection has been sought or obtained or any other commercial \ denomination.

different commercial types and/or colours of {name of produce}. If the produce is not visible from the outside, the commercial types and/or colours and the quantity of each in the package must be indicated.>

{Add name of the commercial type, depending on the nature of the produce}.

6.2.3 Origin of produce

- Country of origin⁶ and, optionally, district where grown, or national, regional or local place name.
- <In the case of a mixture of distinctly different varieties <species> of {name of produce} of different origins, the indication of each country of origin shall appear next to the name of the variety <species> concerned.>

6.2.4 Commercial Specifications

- Class.
- Size <(if sized)>

{Add other possible particulars, depending on the nature of the produce}.

6.2.5 Official control mark (optional)

7. FOOD ADDITIVES

Untreated fresh fruit and vegetables: This Standard applies to fresh fruits and vegetables as identified in Food Categories 04.1.1.1 Untreated fresh fruits and 04.2.1.1 Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes (including soybeans), and aloe vera), seaweeds, and nuts and seeds and therefore, no food additives are allowed in accordance with the provisions of the General Standard for Food Additives (CODEX STAN 192-1995) for these categories.

Treated fresh fruits and vegetables: Food additives listed in Tables 1 and 2 of the General Standard for Food Additives (CODEX STAN 192-1995) in Food Categories 04.1.1.2 (Surface-treated fresh fruit) and 04.2.1.2 (Surface- treated fresh vegetables, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds) may be used in foods subject to this Standard.

8. CONTAMINANTS

8.1 PESTICIDE RESIDUES

The produce covered by this Standard shall comply with the maximum residue limits for pesticides established by the Codex Alimentarius Commission.

8.2 OTHER CONTAMINANTS

The produce covered by this Standard shall comply with the maximum levels of the *General Standard for Contaminants and Toxins in Food and Feed* (CODEX STAN 193-1995).

9. HYGIENE

9.1 It is recommended that the produce covered by the provisions of this Standard be prepared and handled in accordance with the appropriate sections of the *General Principles of Food Hygiene* (CAC/RCP 1-1969), *Code of Hygienic Practice for Fresh Fruits and Vegetables* (CAC/RCP 53-2003), and other relevant Codex texts such as codes of hygienic practice and codes of practice.

9.2 The produce should comply with any microbiological criteria established in accordance with the *Principles and Guidelines for the Establishment and Application of Microbiological Criteria related to Foods* (CAC/GL 21-1997).

10. METHODS OF ANALYSIS AND SAMPLING

{Methods or analysis to be included as appropriate / necessary}.

⁶ The full or a commonly used name should be indicated.