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DRAFT UNECE STANDARD FOR PECAN KERNELS

<u>Transmitted by the United States</u>

Note by the secretariat: This text is a revised proposal for a new UNECE Standard for Pecan Kernels reproduced as received by the United States.

UNECE STANDARD

concerning the marketing and commercial quality control of

PECAN KERNELS

I. DEFINITION OF PRODUCE

This standard applies to pecan kernels of varieties (cultivars) grown from *Carya illinoenis* (Wangenh.) K. Koch, intended for direct consumption. This standard does not apply to pecan kernels for industrial processing or for use in the food industry except when they are intended to be mixed with other product for direct consumption without further processing.

II. PROVISIONS CONCERNING QUALITY

The purpose of the standard is to define the quality requirements of pecan kernels at the export control stage, after preparation and packaging.

A. Minimum requirements

(i) General provisions

In all classes subject to the special provisions for each class and the tolerances allowed the pecan kernels must be:

- sufficiently dry to ensure keeping quality,
- intact; slight superficial damage is not considered as a defect,
- sound; produce affected by rotting or deterioration such as to make it unfit for consumption is excluded,
- sufficiently developed,
- clean, practically free of any visible foreign matter,
- free from insects or mites whatever their stage of development.
- free of significant damage caused by pests,
- free from mould,
- free from rancidity,
- free of abnormal external moisture,
- free of foreign smell and/or taste.

The condition of the pecan kernels must be such as to enable them:

¹ Excludes dead Pecan Larva (see tolerance table)

- to withstand transport and handling, and
- to arrive in satisfactory condition at the place of destination.

(ii) Moisture content

The pecan kernels shall have a moisture content not exceeding 5% per cent.²

B. Classification

Pecan kernels are classified in the four classes defined below:

1. Whole Kernels

(i) Class I

Pecan Kernels in this class must be of good quality. They must be characteristic of the variety and/or commercial type.

They must be:

- Fairly well developed,
- Fairly uniform in colour,
- Fairly uniform in size,
- Not darker than "amber" skin colour,
- Practically free of pieces of shell and center wall,
- Very slight defects in shape/development,
- Lightly scuffed, not covering more than 10 per cent of the surface area.

(ii) Class II

Pecan kernels in this class must be of good quality. They must be characteristic of the variety and/or commercial type.

They must be:

- Fairly well developed,
- Not darker than dark "amber" skin colour,
- Very slight defects in shape/development,

Results in inter-laboratory trials and which are given in Annexes I and II for dried and dry fruit. The laboratory reference method shall be used in cases of dispute.}

The method to be used should be one of the methods tested collaboratively and shown to give satisfactory

- Lightly scuffed, not covering more than 10 per cent of the surface area,

2. <u>Kernel Pieces</u>

(i) Class I (U.S. Number 1)

Pecan Kernels in this class must be of good quality. They must be characteristic of the variety and/or commercial type.

They must be:

- Fairly well developed,
- Not darker than "amber" skin colour,
- Practically free of pieces of shell and center wall,
- Very slight defects in shape/development
- Lightly scuffed, not covering more than 10 per cent of the surface area
- Must conform to all size classifications specified.

(ii) Class II.

 Pecan Kernels pieces in this class include those not qualifying for inclusion in Class I, but must satisfy the minimum requirements specified above. See Class II Halves for characteristics

C. Colour Classification

A. Kernels

Pecan kernels are classified into four colour types defined below. Colour classification for pecan kernels is optional.

Light: the outer surface of the kernel is mostly **golden** colour or lighter, with not more

than 25 percent of the outer surface darker than golden, none of which is darker

than light brown.

Light amber: more than 25 percent of the outer surface of the kernel is **light brown**, with not

more than 25 percent of the outer surface darker than **light brow**n, none of which

is darker than **medium brow**n.

Amber: more than 25 percent of the outer surface of the kernel is **medium brow**n, with

not more than 25 percent of the outer surface darker than **medium brow**n, none

of which is darker than **dark brown** (very dark-brown or blackish-brown discolouration).

Dark amber: more than 25 percent of the outer surface of the kernel is dark brown, with not

more than 25 percent of the outer surface darker than dark brown (very dark-

brown or blackish-brown discolouration).

III. PROVISIONS CONCERNING SIZING

Pecan kernels are sized in by the number of kernels/halves per pound or per 100g or Class I and Class II, size is determined by Table I³, and Class I and II, (pieces) sizes are determined by Table II⁴

TABLE I

Size classifications for	Number of kernels	Number of kernels	
kernels	per pound	per 100g.	
Mammoth	250 or less	55 or less	
Junior mammoth	251 - 300	55 – 66	
Jumbo	301 - 350	66 – 77	
Extra large	351 - 450	77 – 99	
Large	451 - 550	99 – 121	
Medium	551 - 650	121 -143	
Small (topper)	651 - 750	143 – 165	
Midget	751 - or more	165 – or more	

- (1) When an exact number of kernel halves per pound are specified, the actual count per pound may vary not more than 5 percent from the specified number; and
- (2) When any size classification shown in Table I or a range in count per pound is specified, no tolerance shall be allowed for counts outside of the specified range.

³ The number of halves per pound shall be based upon the weight of half-kernels after all pieces, particles and dust, shell, center wall, and foreign material have been removed.

⁴ Table II, the size of pieces in a lot may be specified in terms of minimum diameter, or as a range described in terms of minimum and maximum diameters expressed in sixteenths or sixty-fourths of an inch.

TABLE II

Size classifications	Maximum diameter (will pass through round opening of following diameter:		Minimum diameter (will not pass through round opening of following diameter:	
	in inches	in mm	in inches	in mm
Mammoth pieces	No limitation	No limitation	8/16	12.5
Extra large pieces	9/16	14.28	7/16	11.11
Halves and pieces	No limitation	No limitation	5/16	7.9
Large pieces	8/16	12.7	5/16	7.9
Medium pieces	6/16	9.52	3/16	4.76
Small pieces	4/16	6.25	2/16	3.17
Midget pieces	3/16	4.76	1/16	1.58
Granules	2/16	3.17	1/16	1.58

IV. PROVISIONS CONCERNING TOLERANCES

Tolerances in respect of quality and size shall be allowed in each package for produce not satisfying the requirements of the class indicated.

A. Quality tolerances

Defects allowed		s allowed (p defective k	er cent by nuernel)	ımber or
	Class I Halves	Class II Halves	Class I Pieces	Class II Pieces
Of which no more than: - Shell center wall and foreign material	0.05	0.15	0.05	0.15
- Dark amber or dark coloured kernels	3	25	3	25
- Other defects of which	3	8	3	8
- Rancid, decay, mould of insect damage	or .5	1.0	.5	1.0
- Insect and insects parts (dead larva)	0.05	0.15	0.05	0.15



Defects allowed	Tolerances allowed (per cent by number or weight of defective kernel)			
	Class I Halves	Class II Halves	Class I Pieces	Class II Pieces
b) Total Tolerance for Pieces, Particles and Dust	15	17	15	17
Of which - Less than ½ kernel pieces	5	7		
- Particles and dust	1	1	2	5

C. Size tolerances

For whole kernel classes, when count per 100g or per pound is specified, 5 per cent, by number or weight, of products not according to the size indicated on the marking; but belonging to the size range immediately above and/or below the size indicated.

V. PROVISIONS CONCERNING PRESENTATION

A. Uniformity

The contents of each package must be uniform and contain only pecan kernels of the same origin (optional), quality and size. The visible part of the contents of the package must be representative of the entire contents.

B. Packaging

Pecan Kernels must be packed in such a way as to protect the produce properly.

The materials used inside the package must be new, 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 that the printing or labeling has been done with non-toxic ink or glue.

Packages must be free of all foreign matter.

C. Presentation

Pecan kernels may be presented in bags or solid containers. All consumer packages within each master container must be of the same weight.

VI. PROVISIONS CONCERNING MARKING

Each package must bear the following particulars in letters grouped on the same side, legibly and indelibly marked and visible from the outside:

For pecan kernels transported in bulk these particulars must appear on a document accompanying the goods and be attached in a visible position inside the transport vehicle.

A. Identification

Packer)	Name and address or
and/or)	officially issued or
Dispatcher)	accepted code mark

B. Nature of produce

- Name of the produce,
- Name of the variety and/or commercial type {according to the nature of the produce},
- Type or style {according to the definitions of the standard},
- Description of the produce.

C. Origin of produce

- Country of origin and, optionally, district where grown or national, regional or local place name

D. Commercial specifications

- Class,
- Size (if sized),
- Crop year (optional or at the request of the importing country),
- Net weight, or the number of pre-packages, followed by the net unit weight in the case of packages containing such units (optional or at the request of the importing country),
- "Best before" followed by the date (optional).

E. Official control mark (optional)