Baby corn - Grading and classification

#### PNS/BAFS xx:

Working Draft For WTO SPS Notification

#### 1 Foreword

2

The Philippine National Standard (PNS) for Baby corn – Grading and classification is a 3 modified adoption of the CODEX STAN 188-1993 Standard for Baby Corn. With the 4 initiative of the Bureau of Agriculture and Fisheries Standards (BAFS), a Technical 5 Working Group (TWG) for the adoption of the Standard was created and authorized 6 under Special Order No. 604 Series of 2017. The TWG was composed of the following 7 agencies and institutions: National Food Authority (NFA). National Food Authority -8 Food Development Center (NFA-FDC), Bureau of Animal Industry (BAI), Food and 9 Nutrition Research Institute (FNRI), Philippine Center for Postharvest Development and 10 Mechanization (PHilMech), University of the Philippines Los Baños (UPLB), and 11 Department of Agriculture (DA) - DA Corn Program. This Standard intends to provide 12 guidance in the regulation and trade and ensure consistent quality and safety of baby 13 14 corn.

15

16 In this Standard, modifications due to national legal requirements and the particular

17 needs of the Philippine industry have been made. These technical deviations have been

incorporated in the provisions of the Standard. Some provisions of the Standard were

also adopted from the ASEAN Standard for Baby Corn (ASEAN Stan 52:2017).

Baby corn - Grading and classification

#### PNS/BAFS xx:

Working Draft For WTO SPS Notification

### 20 **1 Definition of produce**

This Standard applies to the cobs, without the silk and husk, of commercial varieties of
baby corn (corn inflorescence) grown from *Zea mays* L, of the *Gramineae* family to be
supplied fresh to the consumer, after preparation and packaging. Baby corn for industrial
processing is excluded.

### 27 2 Provisions concerning quality

### 2.1 Minimum requirements

In all classes, subject to the special provisions for each class and the tolerances allowed,
 the cobs of baby corn must be:

32 33 - whole:

26

28

29

- sound, produce affected by rotting or deterioration such as to make it unfit for
   consumption is excluded;
- clean, practically free of any visible foreign matter;
- 37 free of any foreign smell and/or taste;
- 38 fresh in appearance;
- 39 practically free of silk;
- practically free of pests and damage caused by them affecting the general
   appearance of the produce;
- 42 practically free from mechanical and/or physiological damage such as low and/or
   43 high temperature; and
- 44 practically free of surface moisture excluding condensation.
- 45
- The cut that is made on the base of the cobs should be clean and well defined. A slightdiscoloration of the cut surface due to storage is acceptable.
- 48

**2.1.1** The baby corn must have been harvested and have reached an appropriate degree of development in accordance with criteria proper to the variety and the area in which they are grown. The development and condition of the baby corn must be such as to enable it:

53

54

55

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

#### 56 57 **2.2 Classification**

- The cobs of baby corn are classified in three classes defined below:
- 60 61
  - 2.2.1 "Extra" class

62

The cobs of baby corn in this class must be well cut and trimmed, free of husk, stalk and silk, intact, and of superior quality. They must be characteristic of the variety and/or commercial type. They must be free of defects, with the exception of very slight superficial

PNS/BAFS xx:

Baby corn - Grading and classification

Working Draft

For WTO SPS Notification

defects, provided these do not affect the general appearance of the produce, the quality,the keeping quality, and presentation in the package.

68 69

**2.2.2 Class I** 

70

71 The cobs of baby corn in this class must be well cut and trimmed, free of husk and stalk,

- <sup>72</sup> and of good quality. They must be characteristic of the variety and/or commercial type.
- 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
- 74 general appearance75 the package:
- 76
- 76 77

83

- slight defects in shape, color, and texture;
- slight defects in regular arrangement of undeveloped kernels (ovules);
- slight defects on the surface due to bruising, scratches, or other mechanical
   damage. The total area affected shall not exceed 5% per cob;
- silk attached to and/or broken from the cob shall be minimal without affecting
   the appearance.

# 84 **2.2.3 Class II**

This class includes cobs of baby corn which do not qualify for inclusion in the higher classes, but satisfy the minimum requirements specified in Section 2.1 above. The following defects, however, may be allowed, provided the cobs of baby corn retain their essential characteristics as regards the quality, the keeping quality, and presentation:

- 90 91
- defects in shape, color, and texture;
- 92 defects in regular arrangement of undeveloped kernels (ovules);
- 93 defects on the surface due to bruising, scratches, or other mechanical damage.
  94 The total area affected shall not exceed 10% per cob;
- 95 silk attached to and/or broken from the cob shall be minimal without affecting
  96 the appearance.
  97
- 98 **3 Provisions concerning sizing**

Size is determined by the length of the cob of baby corn, in accordance with the followingtable:

102

99

Size code	<b>Length</b> (in centimetres)
1	> 9.0 - 12.0
2	> 7.0 - 9.0
3	4.0 - 7.0

103

For all sizes, the minimum width should not be less than 1.0 cm and the maximum width

not more than 2.0 cm.

106

#### PNS/BAFS xx:

Baby corn - Grading and classification

Working Draft For WTO SPS Notification

#### 107 108

#### 4 Provisions concerning tolerances

Tolerances in respect of quality and size shall be allowed in each package for produce notsatisfying the requirements of the class indicated.

111

### 112 4.1 Quality tolerances

113

# 4.1.1 "Extra" Class

114 115

Five percent by number or weight of cobs of baby corn not satisfying the requirements of the class, but meeting those of Class I or, exceptionally, coming within the tolerances of that class.

# 119120 4.1.2 Class I

121

Ten percent by number or weight of cobs of baby corn not satisfying the requirements of the class, but meeting those of Class II or, exceptionally, coming within the tolerances of that class.

125

In the case of cobs of baby corn with incompletely removed husk and stalk, only 5% by
number or weight of 0.5 cm long of the husk and stalk is allowed.

128

# 129 **4.1.3 Class II**

130

Ten percent by number or weight of cobs of baby corn satisfying neither the requirements
 of the class nor the minimum requirements, with the exception of produce affected by
 rotting or any other deterioration rendering it unfit for consumption.

134

In the case of cobs of baby corn with incompletely removed husk and stalk, only 5% bynumber or weight of 0.5 cm long of the husk and stalk is allowed.

137

### 4.2 Size tolerances

138 139

For "Extra" Class, 5%; and for Class I or Class II 10%; by number or weight of cobs of baby
corn not satisfying the requirements as regards sizing, but falling within the class
immediately above or below those indicated in Section 3.

143

# 144 5 Provisions concerning presentation145

### 146 5.1 Uniformity

147

The contents of each package (or lot for produce presented in bulk) must be uniform and contain only cobs of baby corn of the same origin, quality, and size. The visible part of the contents of the package (or lot for produce presented in bulk) must be representative of the entire contents.

- 152
- 153
- 154

PNS/BAFS xx:

Baby corn - Grading and classification

#### Working Draft For WTO SPS Notification

#### 155 5.2 Packaging

156

The cobs of baby corn must be packed in such a way as to protect the produce properly. The primary packaging materials to be used shall be new<sup>1</sup>, 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.

162

The cobs of baby corn shall be packed in each container in compliance with the
 Recommended International Code of Practice for Packaging and Transport of Fresh Fruits
 and Vegetables (CAC/RCP 44-1995) or its equivalent Philippine National Standard.

166

### 167 **5.2.1 Description of containers**

168

172

174

The containers shall meet the quality, hygiene, ventilation and resistance characteristics
to ensure suitable handling, shipping, and preserving of the cobs of baby corn. Packages
(or lot for produce presented in bulk) must be free of foreign matter and smell.

### 173 6 Marking or labelling

### 175 **6.1 Consumer packages**

176

In addition to the requirements of the Codex General Standard for the Labelling of
Prepackaged Foods (CODEX STAN 1-1985) or its equivalent Philippine National Standard
(PNS), the following specific provisions apply:

180

# 181 **6.1.1 Nature of produce**

182

183 If the produce is not visible from the outside, each package shall be labelled as to the name184 of the produce and may be labelled as to the name of the variety (optional).

185

# 186 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 produce transported in bulk, these particulars must
appear on a document accompanying the goods.

- 193 6.2.1 Identification
- 194

192

Name and address of exporter, packer and/or dispatcher. Identification code (optional)<sup>2</sup>.

- 196
- 197
- 198

<sup>&</sup>lt;sup>1</sup> For the purposes of this Standard, this includes recycled material of food-grade quality.

 $<sup>^2</sup>$  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.

#### **PNS/BAFS xx:**

Baby corn - Grading and classification

Working Draft For WTO SPS Notification

#### 6.2.2 Nature of produce 199

200 201 Name of the produce if the contents are not visible from the outside. Name of the variety or commercial type (optional). 202

#### 6.2.3 Origin of produce 204

205

203

#### Country of origin and, optionally, district where grown or national, regional or local place 206 name.

207 208

#### 6.2.4 Commercial identification 209

- 210 211 -
- Class: Size (size code); 212 \_
- Net weight (optional); 213 -
- Produce name; 214 -
- Variety name (optional); and 215 -
- Number of units (optional). 216 -

#### 6.2.5 Official inspection mark (optional) 218

219 220

217

#### 7 **Contaminants**

221 7.1 The produce covered by this Standard shall comply with the maximum levels of 222 the Codex General Standard for Contaminants and Toxins in Food and Feed (CODEX STAN 223 193-1995) or its equivalent Philippine National Standard (PNS). 224

225

226 7.2 The produce covered by this Standard shall comply with the maximum residue limits for pesticides established by the Codex Alimentarius Commission. 227

#### 228 229 8 **Hygiene**

230

It is recommended that the produce covered by the provisions of this Standard be 8.1 231 prepared and handled in accordance with the appropriate sections of the Recommended 232 233 International Code of Practice – General Principles of Food Hygiene (CAC/RCP 1-1969), Code of Hygienic Practice for Fresh Fruits and Vegetables (CAC/RCP 53-2003), and other 234 relevant Codex texts and PNS such as Codes of Hygienic Practice and Codes of Practice. 235 236

237 8.2 The produce should comply with any microbiological criteria established in accordance with the Principles for the Establishment and Application of Microbiological 238 Criteria for Foods (CAC/GL 21-1997). 239