THAI AGRICULTURAL STANDARD

TAS 1516-2015

YARD - LONG BEAN

National Bureau of Agricultural Commodity and Food Standards
Ministry of Agriculture and Cooperatives

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Yard-long bean is widely produced and popularly consumed as legume vegetables throughout the country and has the potential for export. The establishment of yard-long bean standard is essential for the development of its quality and in gaining the confidence and recognition of both domestic and international markets. Thus, the Agricultural Standards Committee deems it necessary to establish the Thai Agricultural Standard for Yard-Long Bean.

This standard is based on the following document:

NOTIFICATION OF MINISTRY OF AGRICULTURE AND COOPERATIVES
ON THE ESTABLISHMENT OF THAI AGRICULTURAL STANDARD:
YARD-LONG BEAN
UNDER THE AGRICULTURAL STANDARDS ACT, B.E. 2551 (2008)

Whereas the Agricultural Standards Committee deems it necessary to establish an agricultural standard for Yard-Long Bean as a voluntary standard in accordance with the Agricultural Standards Act, B.E. 2551 (2008) to promote such agricultural commodity to meet its standard on quality and safety.

By virtue of Sections 5, 15 and 16 of the Agricultural Standards Act, B.E. 2551(2008) and the decision of the Agricultural Standards Committee at the First Session dated 24 April B.E. 2558 (2015), the Minister of Agriculture and Cooperatives hereby issues this Notification on the Establishment of Thai Agricultural Standard: Yard-Long Bean (TAS 1516-2015), as a voluntary standard, details of which are attached herewith.

Notified on 16 June B.E. 2558 (2015)

(Mr. Petipong Pungbun Na Ayudhya)
Minister of Agriculture and Cooperatives
THAI AGRICULTURAL STANDARD

YARD-LONG BEAN

1. SCOPE

1.1 This standard applies to commercial varieties of yard-long bean grown from *Vigna sesquipedalis* L. Fruw. of the Fabaceae family to be supplied fresh to the consumer after preparation and packaging.

1.2 This standard does not apply to yard-long bean for industrial processing.

2. DEFINITIONS

For the purpose of this standard:

2.1 Hang nu means physiologically deformed yard-long bean with shrivelled, small, and imperfect tip similar to whip tail or rat tail.

2.2 Abnormality in shape means poorly developed yard-long bean pod e.g. non-uniform length of seed within pod and acute angle bent tip. The characteristics of shape influenced by characteristics of the varieties are excluded.

3. QUALITY

3.1 Minimum requirements

3.1.1 In all classes, subject to the special provisions for each class and the tolerances allowed, the yard-long bean shall be as follows:

1. whole;
2. characteristics of the variety;
3. fresh;
4. firm;
5. free of bruises, rotting, and splits making it unfit for consumption;
6. clean and practically free of any visible foreign matter;
7. free of severely deformed pod and Hang nu;
8. practically free of pest affecting the general appearance;
9. practically free of damage caused by pest affecting pod quality;
10. free of abnormal external moisture, excluding condensation following removal from cold storage;
11. practically free of damage caused by low and/or high temperature;
12. free of any foreign smell and/or taste.
3.1.2 Yard-long bean shall reach an appropriate degree of development for harvesting depending on variety, season and area in which they are grown. Yard-long bean has been carefully handled during postharvest preparation, packing and transporting in order to arrive at the place of destination in a satisfactory condition.

3.2 Classification
The yard-long bean is classified into three classes as follows:

3.2.1 Extra Class
Yard-long bean in this class shall be of superior quality, free of defects in shape and colour, free of skin defects with the exception of very slight superficial defects provided that these do not affect the general appearance, the pod quality, the storage quality and presentation in the package.

3.2.2 Class I
Yard-long bean in this class shall be of good quality. The following slight defects may be allowed provided these do not affect the general appearance, the pod quality, the storage quality and presentation in the package:
(1) slight defect in shape and colour;
(2) slight skin defects due to scratch, scar, or damage caused by pests provided that the skin defect areas do not exceed 5% of the total pod surface area.

3.2.3 Class II
This class includes yard-long bean which does not qualify for inclusion in the higher classes, but satisfy the minimum requirements specified in Section 3.1. The following slight defects may be allowed provided these do not affect the general appearance, the pod quality, the storage quality and presentation in the package:
(1) defects in shape and colour;
(2) skin defects due to scratch, scar, or damage caused by pests provided that the skin defect areas do not exceed 10% of the total pod surface area.

4. SIZING
Size is determined by length as shown in Table 1:

<table>
<thead>
<tr>
<th>Table 1 Size of Yard-long bean</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size Code</strong></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>
Note: The classification of quality and size code according to this standard may be combined to stipulate trade classification. Trading partners may name the trade classification differently depending on their requirements or seasonal limitations.

5. TOLERANCES

The following tolerances in respect of quality and size shall be allowed in each package for yard-long bean not satisfying the requirements of the class indicated:

5.1 Quality tolerances

5.1.1 Extra Class

Five percent by number or weight of yard-long bean not satisfying the requirements of Extra Class (Section 3.2.1), but meeting those of Class I (Section 3.2.2) or, exceptionally, coming within the tolerances of Class I (Section 5.1.2)

5.1.2 Class I

Ten percent by number or weight of yard-long bean not satisfying the requirements of Class I (Section 3.2.2), but meeting those of Class II (Section 3.2.3) or, exceptionally, coming within the tolerances of Class II (Section 5.1.3)

5.1.3 Class II

Fifteen percent by number or weight of yard-long bean satisfying neither the requirements of Class II (Section 3.2.3) nor the minimum requirements (Section 3.1), with the exception of produce affected by rotting or any other deterioration rendering it unfit for consumption

5.2 Size tolerances

For all size codes, 10% by number or weight of yard-long bean corresponding to the size code immediately above or below is allowed.

6. PACKAGING

6.1 Uniformity

The contents of each package shall be uniform and contain only yard-long bean of the same variety, quality, size and colour. The visible part of the content of the package shall represent the entire contents.

6.2 Package

Yard-long bean shall be packed in a proper package for storage. The materials used inside the package shall be clean and of good quality. It shall be able to protect yard-long bean from damage affecting the quality. The uses of such materials, particularly of paper or stamps bearing trade specifications are allowed, provided that the printing or labelling has been done with non-toxic ink or glue.
The package shall be of good quality, hygiene, and resistance against transportation and to be able to protect yard-long bean from damage affecting its quality. Package shall be free of foreign matter and smell.

7. MARKING AND LABELLING

7.1 Consumer packages

The information shall appear on the package, wrapping material, fastening material, tag or on the produce in a manner that is legible, clear, and indelible without false or deception as follows:

(1) Name of the produce
To be labelled as “yard-long bean” if the produce is not visible from the outside.

(2) Net weight in metric system

(3) Class (optional)

(4) Size code and/or size (optional)

(5) Information of producer, packer, distributor, importer or exporter
Indicate the name and address of producer, packer, distributor, importer or exporter.

(6) Origin of produce
Indicate country of origin, except production for domestic market.

(7) Language
Label of produce for domestic market shall be in Thai, however, foreign language may also be added. Label of produce for export can be in foreign language.

7.2 Non-retail containers

The information shall be shown in the accompanied documents of the shipment, on the label adhering to the container, or on the container in a manner that is legible, indelible without false or deception as follows:

(1) Name of the produce
To be labelled as “yard-long bean”

(2) Net weight in metric system

(3) Class

(4) Size code and/or size (optional)

(5) Information of producer, packer, distributor, importer or exporter
Indicate the name and address of producer, packer, distributor, importer or exporter.

(6) Origin of produce
Indicate country of origin, except production for domestic market.

(7) Language
Label of produce for domestic market shall be in Thai, however, foreign language may also be added. Label of produce for export can be in foreign language.
7.3 Certification mark


8. CONTAMINANTS

Type and maximum level of contaminants in yard-long bean shall be in compliance with the relevant laws and regulations.

9. PESTICIDE RESIDUES

Type and maximum residue limit of pesticide in yard-long bean shall be in compliance with the relevant laws and regulations and the requirements under the Thai Agricultural Standards on Pesticide Residues: Maximum Residue Limits (TAS 9002) and Pesticide Residues: Extraneous Maximum Residue Limits (TAS 9003).

10. HYGIENE

Yard-long bean shall be produced under good hygienic practices in accordance with related standard on Good Agricultural Practices (GAP) or Good Agricultural Practices for Food Crop (TAS 9001).

11. METHODS OF ANALYSIS AND SAMPLING

11.1 Analytical methods are shown in Table 2:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Analytical methods</th>
<th>Principles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Quality : minimum requirements (Section 3.1.1)</td>
<td>Visual inspection</td>
<td>-</td>
</tr>
<tr>
<td>2. Defects in shape and colour (Section 3.2)</td>
<td>Visual inspection</td>
<td>-</td>
</tr>
<tr>
<td>3. Sizing (Section 4)</td>
<td>Measure pod length from peduncle to apex</td>
<td>Length measurement</td>
</tr>
</tbody>
</table>

11.2 Sampling method

Sampling method shall be in accordance with the relevant laws, and provisions of the Agricultural Standard on the method of sampling.
APPENDIX A

PHOTOS OF YARD-LONG BEAN

Figure A.1.1 Rotten pod unfit for consumption (Section 3.1.1(5))

Figure A.1.2 Pod with Hang nu (Section 3.1.1(7))

Figure A.1 Examples of yard-long bean pods (not meet the minimum requirements)
Figure A.1.3 Pod with pests affecting the general appearance (Section 3.1.1(8))

Figure A.1.4 Pod with damage caused by pest affecting quality (Section 3.1.1(9))

Figure A.1 Examples of yard-long bean pods (not meet the minimum requirements) (Continued)
Figure A.2.1 Extra class (Section 3.2.1)

Figure A.2.2 Class I (Section 3.2.2)

Figure A.2.3 Class II (Section 3.2.3)

Figure A.2 Examples of Extra class, Class I and Class II