



## JOINT FAO/WHO FOOD STANDARDS PROGRAMME

### FAO/WHO COORDINATING COMMITTEE FOR ASIA

#### Twenty-third Session

#### REVIEW OF THE SAMPLING PLANS IN REGIONAL STANDARDS (Asia)

(Prepared by Japan)

1. As written in CRD 1, attribute sampling plans with an AQL of 6.5% are appropriate for commodities covered by regional standards in principle. However, information on reduced sampling plans is unintentionally missing in Appendix I to CRD 1. The corrected table is included in Appendix I to this document.
2. For quantitative provisions, variable sampling plans with an AQL of 6.5% (according to ISO 3951-1) can achieve the same inspection level, even though importing countries have to independently conduct two different types of sampling for one lot. Therefore, the use of variable sampling plans instead of attribute sampling plans does not alter the content of regional standards significantly.
3. Qualitative provisions in regional standards are as follows:
  - *Regional Standard for Non-Fermented Soybean Products* (CXS 322R-2015): moisture content, protein content and net weight
  - *Regional Standard for Fermented Soybean Paste* (CXS 298R-2009): total nitrogen, amino nitrogen, moisture content and minimum fill
  - *Regional Standard for Edible Sago Flour* (CXS 301R-2011): moisture content, acidity, starch content, crude fibre and particle size)
  - *Regional Standard for Tempe* (CXS 313R-2013): moisture content, protein content, lipid content and crude fibre
  - *Regional Standard for Laver Products* (CXS 323R-2017): moisture content, acid value and net contents
  - *Regional Standard for Soybean Products Fermented with Bacillus Species* (CXS 354R-2023): net weight
  - *Regional Standard for Cooked Rice Wrapped in Plant Leaves* (CXS 355R-2023): peroxide value and net weight
  - *Regional Standard for Quick Frozen Dumpling* (Step 7): ratio of filling to total and net weight
4. Since the use of variable plans instead of attribute plans may increase the burden of importing country's quarantine, the decision whether to use variable plans is up to an importing country. Note that even if an importing country decides to use variable sampling plans, it must still conduct sampling according to attribute sampling plans for qualitative provisions.
5. When an importing country decides to use variable sampling plans, the country must notify all exporting countries prior to the application. The decision must consistently apply to all exporting countries.
6. Appendix II shows a table for variable sampling plans.

#### RECOMMENDATIONS

7. CCASIA is invited to:
  - i. Consider the revised attribute sampling plans (Appendix I) for the commodities defined in regional standards in light of the revised CXG 50 referring to the discussion in CRD 1 and this paper;
  - ii. Agree that following an importing country's decision, variable sampling plans instead of attribute sampling plans can be used for quantitative provisions; and
  - iii. Forward sampling plans, with amendment following the discussion at CCASIA23 if necessary, to CCMAS for endorsement.

**APPENDIX I****Inspection by attributes plans in accordance with ISO 2859-1 (AQL=6.5%)**

| Lot size<br>Number of<br>packages,<br>each<br>containing<br>1 or more<br>units) | Inspection level   |                          |                    |                          |                    |                          |
|---------------------------------------------------------------------------------|--------------------|--------------------------|--------------------|--------------------------|--------------------|--------------------------|
|                                                                                 | Reduced            |                          | Normal             |                          | Tightened          |                          |
|                                                                                 | Sample<br>size (n) | Acceptance<br>number (c) | Sample<br>size (n) | Acceptance<br>number (c) | Sample<br>size (n) | Acceptance<br>number (c) |
| 2-15                                                                            | 2                  | 0                        | 2                  | 0                        | 3                  | 0                        |
| 16-50                                                                           | 5                  | 1                        | 8                  | 1                        | 13                 | 1                        |
| 51-90                                                                           | 5                  | 1                        | 13                 | 2                        | 13                 | 1                        |
| 91-150                                                                          | 8                  | 2                        | 20                 | 3                        | 20                 | 2                        |
| 151-280                                                                         | 13                 | 3                        | 32                 | 5                        | 32                 | 3                        |
| 281-500                                                                         | 20                 | 5                        | 50                 | 7                        | 50                 | 5                        |
| 501-1200                                                                        | 32                 | 6                        | 80                 | 10                       | 80                 | 8                        |
| 1201-3200                                                                       | 50                 | 8                        | 125                | 14                       | 125                | 12                       |
| 3201 and<br>over                                                                | 80                 | 10                       | 200                | 21                       | 211                | 18                       |

## Note

- If sample size n equals to or exceeds lot size, carry out 100% inspection.
- The number of samples to be analyzed is n. If the number of samples that do not meet criterion is less than or equal to c, the lot should be accepted. Otherwise, the lot should be rejected.

**APPENDIX II****Inspection by variable plans in accordance with ISO 3951-1 (AQL=6.5%)**

| Lot size<br>(number of<br>packages,<br>each<br>containing 1<br>or more<br>units) | Inspection level |       |        |       |           |       |
|----------------------------------------------------------------------------------|------------------|-------|--------|-------|-----------|-------|
|                                                                                  | Reduced          |       | Normal |       | Tightened |       |
|                                                                                  | n                | k     | n      | k     | n         | K     |
| 2-15                                                                             | 4                | 0.586 | 4      | 0.735 | 4         | 0.950 |
| 16-25                                                                            | 4                | 0.586 | 6      | 0.939 | 6         | 1.061 |
| 26-50                                                                            | 4                | 0.586 | 6      | 0.887 | 9         | 1.218 |
| 51-90                                                                            | 5                | 0.550 | 9      | 0.869 | 9         | 1.190 |
| 91-150                                                                           | 7                | 0.507 | 14     | 0.935 | 14        | 1.147 |
| 151-280                                                                          | 9                | 0.628 | 21     | 0.945 | 21        | 1.227 |
| 281-500                                                                          | 14               | 0.601 | 33     | 1.036 | 32        | 1.225 |
| 501-1200                                                                         | 21               | 0.830 | 52     | 1.120 | 50        | 1.245 |
| 1201-3200                                                                        | 33               | 0.954 | 79     | 1.195 | 78        | 1.281 |
| 3201 and<br>over                                                                 | 52               | 1.120 | 124    | 1.239 | 122       | 1.325 |

## Note

- If sample size n equals to or exceeds lot size, carry out 100 percent inspection.
- In case of minimum limit, if the sample mean is higher than the minimum limit plus k times standard deviation, the lot should be accepted. Otherwise, reject the lot.
- In case of maximum limit, if the sample mean is lower than the maximum limit minus k times standard deviation, the lot should be accepted. Otherwise, reject the lot.