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## Table 1-1. Agencies Responsible for Package Regulations and Applicable Requirements

| Table 1-1. Agencies Responsible for Package Regulations and Applicable Requirements |
| --- |
| Commodity | Responsible Agency | NIST Handbook 133 Sampling Plans | Table of Maximum Allowable Variations |
| Meat, Poultry, and Siluriformes\*\*Siluriformes include, but are not limited to, “catfish” (fish of the family lctaluridae) and “basa” and “swai” (fish of the family Pangasiidae). | U.S. Department of Agriculture, Food Safety and Inspection Service and state and local weights and measures.**www.nist.gov/pml/owm** | **Use Table 2‑1.** Sampling Plans for Category A to test packages at other than point of pack.**Use Table 2‑2.** Sampling Plans for Category B to test packages in federally inspected meat and poultry plants. | **Table 2‑9.**  U.S. Department of Agriculture, Meat, Poultry, and Siluriformes Groups and Lower Limits for Individual Packages |
| Foods, drugs, and cosmetics subject to the Food, Drug, and Cosmetic Act including those packaged at the retail store level that have been in interstate commerce (e.g., seafood) or those made with ingredients that have been in interstate commerce and beer made from substitutes for malted barley (e.g., sorghum, rice, or wheat) and wine beverages with an alcohol content of less than 7 % by volume | U.S. Food and Drug Administration and state and local weights and measures[**www.fda.gov**](http://www.fda.gov/) | **Use Table 2‑1.** Sampling Plans for Category A to test packages at all locations. | **Table 2‑5.** MAVs for Packages Labeled by Weight**Table 2‑6.** MAVs for Packages Labeled by Liquid or Dry Volume**Table 2‑7.** MAVs for Packages Labeled by Count**Table 2‑8.** MAVs for Packages Labeled by Length (Width) or Area |
| Tobacco | U.S. Food and Drug Administration and local weights and measures[**www.fda.gov**](http://www.fda.gov/) |
| Food products not subject to the Federal Food, Drug, and Cosmetic Act, including meat and poultry products packaged at the retail store level | State and local weights and measures**www.nist.gov/pml/owm** | **Table 2‑10.** Exceptions to the MAVs for Textiles, Polyethylene Sheeting and Film, Mulch and Soil Labeled by Volume, Packaged Firewood and Stove Wood Labeled by Volume, and Packages Labeled by Count with 50 Items or Fewer, and Specific Agricultural Seeds Labeled by Count |
| Non-food Consumer Products | Federal Trade Commission[**www.ftc.gov**](http://www.ftc.gov/) |
| Non-food Consumer and Non-consumer Products | State and local weights and measureswww.nist.gov/pml/owm/resources-weights-and-measures/state-weights-and-measures-directors |  |
| Alcohol Products, except for beer made from substitutes for malted barley (e.g., sorghum, rice, or wheat) and wine beverages with an alcohol content of less than 7 % by volume, which are regulated by FDA | Alcohol and Tobacco Tax and Trade Bureau. State and local weights and measures[**www.ttb.gov**](http://www.ttb.gov/) |
| Pesticides(Refer to Section 1.4.1. “Net Quantity of Contents Compliance Requirements for Pesticides Labeled with Minimum Net Quantity of Contents Declarations.”) | U.S. Environmental Protection Agency and state and local weights and measures[**www.epa.gov**](http://www.epa.gov/) |

(Amended 2018)

## Table 2-1. Sampling Plans for Category A

| Table 2-1. Sampling Plans for Category A |
| --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Inspection LotSize | SampleSize | Sample CorrectionFactor | Number of Minus Package Errors Allowed to Exceed the MAV1 | Initial Tare Sample Size2 |
| Glass and Aerosol Packages | All Other Packages |
| 1 | 1 | Apply MAV | 01 | 2 | 2 |
| 2 | 2 | 8.985 |
| 3 | 3 | 2.484 |
| 4 | 4 | 1.591 |
| 5 | 5 | 1.242 |
| 6 | 6 | 1.049 |
| 7 | 7 | 0.925 |
| 8 | 8 | 0.836 |
| 9 | 9 | 0.769 |
| 10 | 10 | 0.715 |
| 11 | 11 | 0.672 |
| 12 to 250 | 12 | 0.635 |
| 251 to 3 200 | 24 | 0.422 | 3 |
| More than 3 200 | 48 | 0.290 | 11 |
| 1 For mulch and soils packaged by volume see Table 2‑10. Exceptions to the Maximum Allowable Variations – 1 package may exceed the MAV for every 12 packages in the sample.2 If sample size is 11 or fewer, the initial tare sample size and the total tare sample size is 2 samples. |

## Table 2-2. Sampling Plans for Category B

| Table 2-2. Sampling Plans for Category B (for Use in USDA-Inspected Meat and Poultry Plants Only) |
| --- |
| 1 | 2 | 3 | 4 |
| Inspection Lot Size | Sample Size | Initial Tare Sample Size | Number of Packages Allowed to Exceed the MAVs in Table 2‑9 |
| 250 or Fewer | 10 | 2 | 0 |
| 251 or More | 30 | 5 |

## Table 2-3. Category A

| Table 2-3. Category A |
| --- |
|  | Total Number of Packages in Tare Sample**Note:**  Total number of packages to be opened for tare determination. Numbers include those packages opened for initial tare sample. |
| Sample Size | 12 | 24 | 48 |
| Initial Tare Sample Size | 2 | 2 | 3 | 2 | 3 |
| Ratio of Rc/Rt |  |
| If range of tare equals “zero,” use Initial Tare Sample Size.If the ratio is “zero” based on a “zero” range of package error, open all of the packages in the sample. | 2 | 2 | 3 | 2 | 3 |
| If the ratio is greater than 0 but less than or equal to 0.2 | 12 | 24 | 24 | 48 | 48 |
| 0.21 to 0.60 | 12 | 24 | 24 | 48 | 48 |
| 0.61 to 0.70 | 12 | 24 | 24 | 47 | 47 |
| 0.71 to 0.80 | 12 | 23 | 23 | 47 | 47 |
| 0.81 to 1.00 | 12 | 23 | 23 | 46 | 46 |
| 1.01 to 1.10 | 11 | 23 | 23 | 46 | 46 |
| 1.11 to 1.20 | 11 | 23 | 23 | 45 | 45 |
| 1.21 to 1.30 | 11 | 22 | 22 | 45 | 45 |
| 1.31 to 1.50 | 11 | 22 | 22 | 44 | 44 |
| 1.51 to 1.60 | 11 | 22 | 22 | 43 | 43 |
| 1.61 to 1.70 | 11 | 21 | 21 | 42 | 42 |
| 1.71 to 1.80 | 10 | 21 | 21 | 42 | 42 |
| 1.81 to 1.90 | 10 | 21 | 21 | 41 | 41 |
| 1.91 to 2.00 | 10 | 20 | 20 | 41 | 41 |
| 2.01 to 2.10 | 10 | 20 | 20 | 40 | 40 |
| 2.11 to 2.20 | 10 | 20 | 20 | 39 | 39 |
| 2.21 to 2.30 | 10 | 19 | 19 | 39 | 39 |
| 2.31 to 2.40 | 9 | 19 | 19 | 38 | 38 |
| 2.41 to 2.50 | 9 | 19 | 19 | 37 | 37 |
| 2.51 to 2.60 | 9 | 18 | 18 | 37 | 37 |
| 2.61 to 2.70 | 9 | 18 | 18 | 36 | 36 |
| 2.71 to 2.80 | 9 | 18 | 18 | 35 | 35 |
| 2.81 to 2.90 | 9 | 17 | 17 | 34 | 34 |
| 2.91 to 3.00 | 8 | 17 | 17 | 34 | 34 |
| 3.01 to 3.10 | 8 | 17 | 17 | 33 | 33 |
| 3.11 to 3.30 | 8 | 16 | 16 | 32 | 32 |
| 3.31 to 3.40 | 8 | 16 | 16 | 31 | 31 |
| 3.41 to 3.50 | 8 | 15 | 15 | 30 | 30 |
| 3.51 to 3.60 | 7 | 15 | 15 | 30 | 30 |
| 3.61 to 3.70 | 7 | 15 | 15 | 29 | 29 |
| 3.71 to 3.90 | 7 | 14 | 14 | 28 | 28 |
| 3.91 to 4.00 | 7 | 14 | 14 | 27 | 27 |
| 4.01 to 4.10 | 7 | 13 | 13 | 27 | 27 |
| 4.11 to 4.20 | 7 | 13 | 13 | 26 | 26 |
| 4.21 to 4.30 | 6 | 13 | 13 | 25 | 25 |
| 4.31 to 4.40 | 6 | 12 | 12 | 25 | 25 |
| 4.41 to 4.60 | 6 | 12 | 12 | 24 | 24 |
| 4.61 to 4.70 | 6 | 12 | 12 | 23 | 23 |
| 4.71 to 4.80 | 6 | 11 | 11 | 23 | 23 |
| 4.81 to 4.90 | 6 | 11 | 11 | 22 | 22 |
| 4.91 to 5.00 | 5 | 11 | 11 | 22 | 22 |
| 5.01 to 5.10 | 5 | 11 | 11 | 21 | 21 |
| 5.01 to 5.10 | 5 | 11 | 11 | 21 | 21 |
| 5.11 to 5.20 | 5 | 10 | 10 | 21 | 21 |
| 5.21 to 5.40 | 5 | 10 | 10 | 20 | 20 |
| 5.41 to 5.60 | 5 | 10 | 10 | 19 | 19 |
| 5.61 to 5.70 | 5 | 9 | 9 | 19 | 19 |
| 5.71 to 5.80 | 5 | 9 | 9 | 18 | 18 |
| 5.81 to 5.90 | 4 | 9 | 9 | 18 | 18 |
| 5.91 to 6.10 | 4 | 9 | 9 | 17 | 17 |
| 6.11 to 6.20 | 4 | 8 | 8 | 17 | 17 |
| 6.21 to 6.50 | 4 | 8 | 8 | 16 | 16 |
| 6.51 to 6.70 | 4 | 8 | 8 | 15 | 15 |
| 6.71 to 6.80 | 4 | 7 | 7 | 15 | 15 |
| 6.81 to 7.00 | 4 | 7 | 7 | 14 | 14 |
| 7.01 to 7.20 | 3 | 7 | 7 | 14 | 14 |
| 7.21 to 7.40 | 3 | 7 | 7 | 13 | 13 |
| 7.41 to 7.60 | 3 | 6 | 6 | 13 | 13 |
| 7.61 to 8.00 | 3 | 6 | 6 | 12 | 12 |
| 8.01 to 8.20 | 3 | 6 | 6 | 11 | 11 |
| 8.21 to 8.50 | 3 | 5 | 5 | 11 | 11 |
| 8.51 to 8.80 | 3 | 5 | 5 | 10 | 10 |
| 8.81 to 9.00 | 2 | 5 | 5 | 10 | 10 |
| 9.01 to 9.30 | 2 | 5 | 5 | 9 | 9 |
| 9.31 to 9.70 | 2 | 4 | 4 | 9 | 9 |
| 9.71 to 10.40 | 2 | 4 | 4 | 8 | 8 |
| 10.41 to 10.90 | 2 | 4 | 4 | 7 | 7 |
| 10.91 to 11.30 | 2 | 3 | 3 | 7 | 7 |
| 11.31 to 12.50 | 2 | 3 | 3 | 6 | 6 |
| 12.51 to 13.20 | 2 | 3 | 3 | 5 | 5 |
| 13.21 to 13.90 | 2 | 2 | 3 | 5 | 5 |
| 13.91 to 16.00 | 2 | 2 | 3 | 4 | 4 |
| 16.01 to 19.10 | 2 | 2 | 3 | 3 | 3 |
| 19.11 to 19.20 | 2 | 2 | 3 | 2 | 3 |
| Initial Tare Sample Size | 2 | 2 | 3 | 2 | 3 |

## Table 2-4. Category B

| Table 2-4. Category B |
| --- |
|  | Total Number of Packages in Tare Sample**Note:**Total number of packages to be opened for tare determination. Numbers include those packages opened for initial tare sample. |
| Sample Size | 10 | 30 |
| Initial Tare Sample Size | 2 | 5 |
| Ratio of Rc/Rt |  |  |
| If the ratio is zero, based on a “zero” range of tare, use Initial Tare Sample Size.If the ratio is “zero” based on a “zero” range of package errors, open all the packages in the sample. | 2 | 5 |
| If the ratio is greater than 0 but less than or equal to 0.2 | 10 | 30 |
| 0.21 to 0.40 | 10 | 29 |
| 0.41 to 0.60 | 10 | 28 |
| 0.61 to 0.80 | 9 | 26 |
| 0.81 to 1.00 | 8 | 24 |
| 1.01 to 1.20 | 8 | 23 |
| 1.21 to 1.40 | 7 | 21 |
| 1.41 to 1.60 | 7 | 19 |
| 1.61 to 1.80 | 6 | 17 |
| 1.81 to 2.00 | 5 | 15 |
| 2.01 to 2.20 | 5 | 14 |
| 2.21 to 2.40 | 5 | 13 |
| 2.41 to 2.60 | 4 | 12 |
| 2.61 to 2.80 | 4 | 11 |
| 2.81 to 3.00 | 4 | 10 |
| 3.01 to 3.20 | 3 | 9 |
| 3.21 to 3.60 | 3 | 8 |
| 3.61 to 3.80 | 3 | 7 |
| 3.81 to 4.40 | 2 | 6 |
| If the ratio is greater than 4.40, use the Initial Tare Sample Size | 2 | 5 |

## Table 2-5. Maximum Allowable Variations (MAVs) for Packages Labeled by Weight

| Table 2-5. Maximum Allowable Variations (MAVs) for Packages Labeled by WeightDo Not Use this Table for Meat and Poultry Products Subject to USDA Regulations – Use Table 2‑9.For Polyethylene Sheeting and Film, see Table 2‑10. Exceptions to the MAVs. |
| --- |
| Labeled Quantity | Maximum Allowable Variations |
| Less than 36 g, 0.08 lb, or 1.28 oz | 10 % of labeled quantity |
| 36 g or more to 54 g**0.08 lb or more to 0.12 lb**1.28 oz or more to 1.92 oz | 3.6 g**0.008 lb**1/8 oz |
| More than 54 g to 81 g**More than 0.12 lb to 0.18 lb**More than 1.92 oz to 2.88 oz | 5.4 g**0.012 lb**3/16 oz |
| More than 81 g to 117 g**More than 0.18 lb to 0.26 lb**More than 2.88 oz to 4.16 oz | 7.2 g**0.016 lb**¼ oz |
| More than 117 g to 154 g**More than 0.26 lb to 0.34 lb**More than 4.16 oz to 5.44 oz | 9.0 g**0.020 lb**5/16 oz |
| More than 154 g to 208 g**More than 0.34 lb to 0.46 lb**More than 5.44 oz to 7.36 oz | 10.8 g**0.024 lb**3/8 oz |
| More than 208 g to 263 g**More than 0.46 lb to 0.58 lb**More than 7.36 oz to 9.28 oz | 12.7 g**0.028 lb**7/16 oz |
| More than 263 g to 317 g**More than 0.58 lb to 0.70 lb**More than 9.28 oz to 11.20 oz | 14.5 g**0.032 lb**1/2 oz |
| More than 317 g to 381 g**More than 0.70 lb to 0.84 lb**More than 11.20 oz to 13.44 oz | 16.3 g**0.036 lb**9/16 oz |
| More than 381 g to 426 g**More than 0.84 lb to 0.94 lb**More than 13.44 oz to 15.04 oz | 18.1 g**0.040 lb**5/8 oz |
| More than 426 g to 489 g**More than 0.94 lb to 1.08 lb**More than 15.04 oz to 17.28 oz | 19.9 g**0.044 lb**11/16 oz |
| More than 489 g to 571 gMore than 1.08 lb to 1.26 lb | 21.7 g0.048 lb |
| More than 571 g to 635 gMore than 1.26 lb to 1.40 lb | 23.5 g0.052 lb |
| More than 635 g to 698 gMore than 1.40 lb to 1.54 lb | 25.4 g0.056 lb |
| More than 698 g to 771 gMore than 1.54 lb to 1.70 lb | 27.2 g0.060 lb |
| More than 771 g to 852 gMore than 1.70 lb to 1.88 lb | 29.0 g0.064 lb |
| More than 852 g to 970 gMore than 1.88 lb to 2.14 lb | 31.7 g0.070 lb |
| More than 970 g to 1.12 kgMore than 2.14 lb to 2.48 lb | 35.3 g0.078 lb |
| More than 1.12 kg to 1.25 kgMore than 2.48 lb to 2.76 lb | 39.0 g0.086 lb |
| More than 1.25 kg to 1.45 kgMore than 2.76 lb to 3.20 lb | 42.6 g0.094 lb |
| More than 1.45 kg to 1.76 kgMore than 3.20 lb to 3.90 lb | 49 g0.11 lb |
| More than 1.76 kg to 2.13 kgMore than 3.90 lb to 4.70 lb | 54 g0.12 lb |
| More than 2.13 kg to 2.63 kgMore than 4.70 lb to 5.80 lb | 63 g0.14 lb |
| More than 2.63 kg to 3.08 kgMore than 5.80 lb to 6.80 lb | 68 g0.15 lb |
| More than 3.08 kg to 3.58 kgMore than 6.80 lb to 7.90 lb | 77 g0.17 lb |
| More than 3.58 kg to 4.26 kgMore than 7.90 lb to 9.40 lb | 86 g0.19 lb |
| More than 4.26 kg to 5.30 kgMore than 9.40 lb to 11.70 lb | 99 g0.22 lb |
| More than 5.30 kg to 6.48 kgMore than 11.70 lb to 14.30 lb | 113 g0.25 lb |
| More than 6.48 kg to 8.02 kgMore than 14.30 lb to 17.70 lb | 127 g0.28 lb |
| More than 8.02 kg to 10.52 kgMore than 17.70 lb to 23.20 lb | 140 g0.31 lb |
| More than 10.52 kg to 14.33 kgMore than 23.20 lb to 31.60 lb | 167 g0.37 lb |
| More than 14.33 kg to 19.23 kgMore than 31.60 lb to 42.40 lb | 199 g0.44 lb |
| More than 19.23 kg to 24.67 kgMore than 42.40 lb to 54.40 lb | 226 g0.50 lb |
| More than 24.67 kgMore than 54.40 lb | 2 % of labeled quantity |

(Amended 2004)

## Table 2-6. Maximum Allowable Variations (MAVs) for Packages Labeled by Liquid and Dry Volume

| Table 2-6. Maximum Allowable Variations (MAVs) for Packages Labeled by Liquid and Dry VolumeDo Not Use this Table for Meat and Poultry Products Subject to USDA Regulations.For Mulch, see Table 2‑10. Exceptions to the Maximum Allowable Variations,Use Table 2‑9 for USDA –Regulated Products. |
| --- |
| Labeled Quantity | Maximum Allowable Variations (MAVs) |
| 3 mL or less**0.50 fl oz or less**0.18 in3 or less | 0.5 mL**0.02 fl oz**0.03 in3 |
| More than 3 mL to 8 mLMore than 0.18 in3 to 0.49 in3 | 1.0 mL0.06 in3 |
| More than 8 mL to 14 mLMore than 0.49 in3 to 0.92 in3 | 1.5 mL0.09 in3 |
| More than 14 mL to 22 mL**More than 0.50 fl oz to 0.75 fl oz**More than 0.92 in3 to 1.35 in3 | 1.7 mL**0.06 fl oz**0.10 in3 |
| More than 22 mL to 66 mL**More than 0.75 fl oz to 2.25 fl oz**More than 1.35 in3 to 4.06 in3 | 3.8 mL**0.13 fl oz**0.23 in3 |
| More than 66 mL to 125 mL**More than 2.25 fl oz to 4.25 fl oz**More than 4.06 in3 to 7.66 in3 | 5.6 mL**0.19 fl oz**0.34 in3 |
| More than 125 mL to 170 mL**More than 4.25 fl oz to 5.75 fl oz**More than 7.66 in3 to 10.37 in3 | 7.3 mL**0.25 fl oz**0.45 in3 |
| More than 170 mL to 221 mL**More than 5.75 fl oz to 7.50 fl oz**More than 10.37 in3 to 13.53 in3 | 9.1 mL**0.31 fl oz**0.55 in3 |
| More than 221 mL to 347 mL**More than 7.50 fl oz to 11.75 fl oz**More than 13.53 in3 to 21.20 in3 | 11.2 mL**0.38 fl oz**0.68 in3 |
| More than 347 mL to 502 mL**More than 11.75 fl oz to 17.00 fl oz**More than 21.20 in3 to 30.67 in3 | 14.7 mL**0.5 fl oz**0.90 in3 |
| More than 502 mL to 621 mL**More than 17 fl oz to 21 fl oz**More than 30.67 in3 to 37.89 in3 | 18.6 mL**0.63 fl oz**1.13 in3 |
| More than 621 mL to 798 mL**More than 21 fl oz to 27 fl oz**More than 37.89 in3 to 48.72 in3 | 22.1 mL**0.75 fl oz**1.35 in3 |
| More than 798 mL to 916 mL**More than 27 fl oz to 31 fl oz**More than 48.72 in3 to 55.94 in3 | 26.0 mL**0.88 fl oz**1.58 in3 |
| More than 916 mL to 1.15 L**More than 31 fl oz to 39 fl oz**More than 55.94 in3 to 70.38 in3 | 29 mL**1 fl oz**1.80 in3 |
| More than 1.15 L to 1.62 L**More than 39 fl oz to 55 fl oz**More than 70.38 in3 to 99.25 in3 | 36 mL**1.25 fl oz**2.25 in3 |
| More than 1.62 L to 2.04 L**More than 55 fl oz to 69 fl oz**More than 99.25 in3 to 124.5 in3 | 44 mL**1.5 fl oz**2.70 in3 |
| More than 2.04 L to 2.51 L**More than 69 fl oz to 85 fl oz**More than 124.5 in3 to 153.3 in3 | 51 mL**1.75 fl oz**3.1 in3 |
| More than 2.51 L to 3.04 L**More than 85 fl oz to 103 fl oz**More than 153.3 in3 to 185.8 in3 | 59 mL**2 fl oz**3.6 in3 |
| More than 3.04 L to 4.73 L**More than 103 fl oz to 160 fl oz**More than 185.8 in3 to 288.7 in3 | 73 mL**2.5 fl oz**4.5 in3 |
| More than 4.73 L to 5.48 L**More than 160 fl oz to 185.6 fl oz**More than 288.7 in3 to 334.9 in3 | 88 mL**3 fl oz**5.4 in3 |
| More than 5.48 L to 7.09 L**More than 185.6 fl oz to 240 fl oz**More than 334.9 in3 to 443.1 in3 | 103 mL**3.5 fl oz**6.3 in3 |
| More than 7.09 L to 8.04 L**More than 240 fl oz to 272 fl oz**More than 443.1 in3 to 490.8 in3 | 118 mL**4 fl oz**7.2 in3 |
| More than 8.04 L to 10.17 L**More than 272 fl oz to 344 fl oz**More than 490.8 in3 to 620.8 in3 | 133 mL**4.5 fl oz**8.1 in3 |
| More than 10.17 L to 11.59 L**More than 344 fl oz to 392 fl oz**More than 620.8 in3 to 707.4 in3 | 147 mL**5 fl oz**9.0 in3 |
| More than 11.59 L to 16.56 L**More than 392 fl oz to 560 fl oz**More than 707.4 in3 to 1 010 in3 | 177 mL**6 fl oz**10.8 in3 |
| More than 16.56 L to 18.92 L**More than 560 fl oz to 640 fl oz (5 gal)**More than 1 010 in3 into 1 155 in3 | 207 mL**7 fl oz**12.6 in3 |
| More than 18.92 L to 23.65 L**More than 640 fl oz to 800 fl oz**More than 1 155 in3 to 1 443 in3 | 236 mL**8 fl oz**14.4 in3 |
| More than 23.65 L to 26.73 L**More than 800 fl oz to 904 fl oz**More than 1 443 in3 to 1 631 in3 | 266 mL**9 fl oz**16.2 in3 |
| More than 26.73 L**More than 904 fl oz**More than 1 631 in3 | **1 % of labeled quantity** |

(Amended 2004)

## Table 2-7. Maximum Allowable Variations (MAVs) for Packages Labeled by Count

| Table 2-7. Maximum Allowable Variations (MAVs) for Packages Labeled by Count |
| --- |
| Labeled Quantity | Maximum Allowable Variations (MAVs) |
| 17 or less | 0 |
| 18 to 50 | 1 |
| 51 to 83 | 2 |
| 84 to 116 | 3 |
| 117 to 150 | 4 |
| 151 to 200 | 5 |
| 201 to 240 | 6 |
| 241 to 290 | 7 |
| 291 to 345 | 8 |
| 346 to 400 | 9 |
| 401 to 465 | 10 |
| 466 to 540 | 11 |
| 541 to 625 | 12 |
| 626 to 725 | 13 |
| 726 to 815 | 14 |
| 816 to 900 | 15 |
| 901 to 990 | 16 |
| 991 to 1075 | 17 |
| 1076 to 1165 | 18 |
| 1166 to 1250 | 19 |
| 1251 to 1333 | 20 |
| 1334 or more | **1.5 % of labeled count rounded off to the nearest whole number** |

## Table 2-8. Maximum Allowable Variations (MAVs) for Packages Labeled by Length, Width, or Area

| Table 2-8. Maximum Allowable Variations (MAVs) for Packages Labeled by Length, Width, or Area (For Textiles, Polyethylene Sheeting and Film – Use Table 2‑10. Exceptions to the MAVs) |
| --- |
| Labeled Quantity | Maximum Allowable Variations (MAVs) of Labeled Quantity |
| 1 m or less1 yd or less | 3 %  |
| More than 1 m to 43 m More than 1 yd to 48 yd | 1.5 %  |
| More than 43 m to 87 mMore than 48 yd to 96 yd | 2 %  |
| More than 87 m to 140 mMore than 96 yd to 154 yd | 2.5 %  |
| More than 140 m to 301 mMore than 154 yd to 330 yd | 3 %  |
| More than 301 m to 1 005 mMore than 330 yd to 1 100 yd | 4 %  |
| More than 1 005 m or 1 100 yd | 5 %  |
| Maximum Allowable Variations (MAV) for Packages Labeled by Area |
| The MAV for packages labeled by area is 3 % of labeled quantity. |

(Amended 2004)

## Table 2-9. U.S. Department of Agriculture, Meat, Poultry, and Siluriformes Groups and Lower Limits for Individual Packages (Maximum Allowable Variations [MAVs])

| Table 2-9. U.S. Department of Agriculture, Meat, Poultry, and Siluriformes Groups and Lower Limits for Individual Packages (Maximum Allowable Variations [MAVs]) |
| --- |
| Definition of Group and Labeled Quantity | Lower Limit for Individual Weights (MAVs) |
| Homogenous Fluid**When Filled**(e.g., baby food or containers of lard) | All Other Products |
| Less than 85 g or 3 oz | 10 % of labeled quantity |
| 85 g or more to 453 g3 oz or more to 16 oz |  | 7.1 g0.016 lb (0.25 oz) |
| More than 453 gMore than 16 oz | 85 g or more to 198 g3 oz to 7 oz | 14.2 g0.031 lb (0.5 oz) |
|  | More than 198 g to 1.36 kg7 oz to 48 oz | 28.3 g0.062 lb (1 oz) |
|  | More than 1.36 kg to 4.53 kgMore than 48 oz to 160 oz | 42.5 g0.094 lb (1.5 oz) |
|  | More than 4.53 kgMore than 160 oz | 1 % of labeled quantity |

(Amended 2018)

## Table 2-10. Exceptions to the Maximum Allowable Variations (MAVs) for Textiles, Polyethylene Sheeting and Film, Mulch and Soil Labeled by Volume, Packaged Firewood and Stove Wood Labeled by Volume, and Packages Labeled by Count with 50 Items or Fewer, and Specific Agricultural Seeds Labeled by Count.

| Table 2-10. Exceptions to the Maximum Allowable Variations (MAVs) for Textiles, Polyethylene Sheeting and Film, Mulch and Soil Labeled by Volume, Packaged Firewood and Stove Wood Labeled by Volume, and Packages Labeled by Count with 50 Items or Fewer, and Specific Agricultural Seeds Labeled by Count. |
| --- |
|  | Maximum Allowable Variations (MAVs) |
| **Polyethylene Sheeting and Film** | **Thickness**When the labeled thickness is 25 µm (1 mil or 0.001 in) or less, any individual thickness measurement of polyethylene film may be up to 35 % below the labeled thickness.When the labeled thickness is greater than 25 µm (1 mil or 0.001 in), individual thickness measurements of polyethylene sheeting may be up to 20 % less than the labeled thickness.The average thickness of a single package of polyethylene sheeting may be up to 4 % less than the labeled thickness.**Weight**The MAV for individual packages of polyethylene sheeting and film shall be 4 % of the labeled quantity. |
| **Textiles** | The MAVs are:For packages labeled with dimensions of 60 cm (24 in) or more: 3 % of the labeled quantity for negative errors; and  6 % of the labeled quantity for plus errors.For packages labeled with dimensions less than 60 cm (24 in): 6 % of the labeled quantity for negative errors; and  12 % for plus errors. |
| **Mulch And Soil Labeled By Volume** | The MAVs are:For individual packages: 5 % of the labeled volume.For samples: One package may exceed the MAV for every 12 packages in the sample (e.g., when the sample size is 12 or fewer, 1 package may exceed the MAV and when the sample size is 48 packages, 4 packages may exceed the MAV). |
| **Packaged Firewood and Stove Wood Labeled by Volume** | 20 % of labeled quantity**Note:**  Use Table 2-5 “Maximum Allowable Variations for Packages Labeled by Weight” for packaged artificial and compressed fireplace logs and stove wood pellets and chips labeled by weight. |
| **Specific Agricultural****Seeds Labeled****By Count** | The MAVS are:For corn seed: 2 % of the labeled countFor soybean seed: 4 % of the labeled countFor field bean seed: 5 % of the labeled countFor wheat seed: 3 % of the labeled count |
| **Animal Bedding** | 5 % of the labeled volume |

(Amended 2010 and 2016)

## Table 2-11. Sampling Plans and Accuracy Requirements for Packages Labeled by Low Count (50 or Fewer) and Packages Given Tolerances (Glass and Stemware)

| Table 2-11. Sampling Plans and Accuracy Requirements for Packages Labeled by Low Count (50 or Fewer) and Packages Given Tolerances (Glass and Stemware) |
| --- |
|  | 1 | 2 | 3 |
| Inspection LotSize | Sample Size | For Packages Labeled by Low Count(50 or Fewer) | For Packages Given Tolerances(Glasses and Stemware) |
| Number of Packages Allowed to Contain Less than the Labeled Count | Number of Package Errors that May Exceed the Allowable Difference |
| 1 – 11 | 1-11 | 1 | 0 |
| 12 – 250 | 12 | 1 | 0 |
| 251 – 3200 | 24 | 2 | 1 |
| More than 3200 | 48 | 3 | 2 |

(Amended 2004)