8-1 Rev. 11/09

INSTRUCTIONS FOR SAMPLING AND TESTING PROCEDURES USED TO DETERMINE THE NET CONTENTS OF PACKAGED COMMODITIES

HANDBOOK 133

The State of California has adopted, as regulation*, the most current edition of the National Institute of Standards and Technology (NIST) HANDBOOK 133 (HB 133), CHECKING THE NET CONTENTS OF PACKAGED GOODS. As of January 2005, this is the edited Fourth Edition.

California Business and Professions Code Section 12211.
 California Code of Regulations, Title 4, Division 9, Chapter 11, Section 4600.

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HB 133 provides procedures for sampling a "lot" to determine compliance with net weight laws and regulations, and specifies test procedures for certain commodities and types of commodities.

The following step-by-step instructions provide for the completion of Package Inspection Report (PIR) forms when conducting an inspection according to the requirements of Handbook 133.

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The most recent Draft of Handbook 133 is available from the web site for the National Institute of Standards and Technology.

https://www.nist.gov/pml/weights-and-measures/publications/nisthandbooks/other-nist-handbooks/other-nist-handbooks-2-0

<u>4th Edition of NIST Handbook 133 (Microsoft Word and Adobe Acrobat PDF Formats)</u>

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SAMPLING AND TESTING PROCEDURE

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SAMPLING AND TESTING PROCEDURES SUMMARY

The step numbers in this summary are the same as the step numbers in the complete text of the Sampling and Testing Instructions.

- 1. Determine which sampling plan to use, Category A, B, or C. A summary of the three sampling plans and general information entry is explained on page 8-51.
- 2. Complete the heading on the correct Package Inspection Report (PIR) form.

Category A, Inspections

3. <u>COMMODITY GROUPS:</u> Determine the Commodity Group MLA (Moisture Loss Allowance) or Other. Determine the type of tare to use: Unused or Dried Used Tare (Dry Tare), or Used Tare (Wet Tare).

Category A, Standard Pack

- 4. <u>BASIC INFORMATION:</u> Use Table 2-1 (page 8-38) to look up Sample Size, Initial Tare Sample Size, Number Minus Errors Allowed to Exceed the Maximum Allowable Variation (MAV), and Sample Correction Factor
- MAXIMUM ALLOWABLE VARIATION (MAV): Determine MAV using Table 2-5, 2-6, 2-7, 2-8, 2-9 or 2-10 (pages 8-42 to 8-49), or the specific commodity (page 8-15, 8-49). If commodity is in Group MLA, calculate adjusted MAV
- 6. SAMPLE AND INITIAL TARE SAMPLE SELECTION
- 7. <u>TARE DETERMINATION</u>: Include more Tare Sample Packages if needed
- 8. PACKAGE ERROR DETERMINATION
- 9. TOTAL ERROR CALCULATION
- 10. <u>UNREASONABLE MINUS ERRORS (UME)</u>: Identify by circling
- 11. <u>DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA</u>: Does the Number of Unreasonable Minus Errors (UME) exceed the Number Allowed?
 - If yes, REJECT, and order Off Sale (lot fails). Compute Average Error (AE) and skip to Step 15 if AE is minus
 - ► If no, continue inspection
- 12. AVERAGE ERROR (AE) COMPUTATION: Computation and compliance.
 - ► If AE is zero or plus, ACCEPT (lot passes)
 - ► If minus, continue inspection

13. CALCULATE SAMPLE ERROR LIMIT (SEL)

14. DETERMINE LOT COMPLIANCE, AVERAGE ERROR (AE) IS MINUS

Group MLA

- ▶ If AE is equal to or less than SEL, ACCEPT (lot passes). $AE \leq SEL$
- If AE is greater than the SEL + MLA, REJECT and order Off Sale (lot fails). AE > (SEL + MLA)
- ► If AE is greater than SEL, but equal to or less than the SEL + MLA, lot is in the Gray Area, and the status is not determined. (SEL + MLA) ≥ AE > SEL

Group Other

- If AE is minus and less than or equal to the SEL, ACCEPT (lot passes). AE \leq SEL
- ▶ If AE is greater than the SEL, REJECT and order Off Sale (lot fails). AE > SEL

15. PERCENT ERROR AND THE TOTAL DOLLAR VALUE OF THE ERROR

Category A, Random Pack

- 4. <u>BASIC INFORMATION:</u> Use Table 2-1 (page 8-38) to look up Sample Size, Initial Tare Sample Size, Number Minus Errors Allowed to Exceed the Maximum Allowable Variation (MAV), and Sample Correction Factor.
- 5. <u>SAMPLE AND INITIAL TARE SAMPLE SELECTION</u>
- 6. <u>TARE DETERMINATION</u>: Include more Tare Sample Packages if needed
- 7. <u>PACKAGE ERRORS</u>: Determine and record package errors for the sample
- 8. <u>MAXIMUM ALLOWABLE VARIATION (MAV)</u>: Determine MAV for lightest package using Table 2-5, 2-6, 2-7, 2-8, or 2-9 (pages 8-42 to 8-49), or the specific commodity (page 8-21, 8-49). If Group MLA, calculate adjusted MAV.
- 9. TOTAL ERROR CALCULATION

UNREASONABLE MINUS ERRORS (UME): Identify by circling

Summary, Category A

- 11. <u>DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA:</u> Does the Number of Unreasonable Minus Errors (UME) exceed the Number Allowed?
 - ► If yes, REJECT and order Off Sale (lot fails). Compute Average Error (AE) and skip to Step 15 if AE is minus.
 - ► If no, continue inspection
- 12. AVERAGE ERROR (AE) COMPUTATION: Computation and compliance
 - ► If AE is zero or plus, ACCEPT (lot passes)
 - ► If minus, continue inspection
- 13. CALCULATE SAMPLE ERROR LIMIT (SEL)
- 14. DETERMINE LOT COMPLIANCE, AVERAGE ERROR IS MINUS

Group MLA

- ▶ If AE is equal to or less than SEL, ACCEPT (lot passes). AE ≤ SEL
- If AE is greater than the SEL + MLA, REJECT and order Off Sale (lot fails) AE > (SEL + MLA)
- ► If AE is greater than SEL, but equal to or less than the SEL + MLA, lot is in the Gray Area and the status is not determined. (SEL + MLA) ≥ AE > SEL

Group Other

- If AE is less than or equal to the SEL, ACCEPT (lot passes). $AE \leq SEL$
- ▶ If AE is greater than the SEL, REJECT and order Off Sale (lot fails). AE > SEL
- 15. PERCENT ERROR AND THE TOTAL DOLLAR VALUE OF THE ERROR

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Category B Inspections: USDA Packing Plant Inspections Only

Category B, Standard Pack

- 3. <u>BASIC INFORMATION:</u> Use Table 2-2 (page 8-38) to look up Sample Size, Initial Tare Sample Size, and Number Minus Errors Allowed to Exceed the MAV.
- 4. MAXIMUM ALLOWABLE VARIATION (MAV): Look up MAV using Table 2-9 (page 8-48).
- 5. <u>SAMPLE AND INITIAL TARE SAMPLE SELECTION</u>
- 6. <u>TARE DETERMINATION:</u> Include more Tare Sample Packages if needed.
- 7. <u>PACKAGE ERRORS</u>: Determine and record package errors for the sample.
- 8. TOTAL ERROR CALCULATION
- 9. UNREASONABLE MINUS ERRORS (UME): Identify by circling
- 10. <u>DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA</u>: Does the Number of Unreasonable Minus Errors (UME) exceed the Number Allowed?
 - ► If yes, REJECT and order Off Sale (lot fails). Compute Average Error (AE) and skip to Step 13 if AE is minus.
 - ► If no, continue inspection
- 11. AVERAGE ERROR (AE) CALCULATION
- 12. DETERMINE LOT COMPLIANCE
 - ► If AE is zero or plus, ACCEPT (lot passes)
 - ▶ If AE is minus, REJECT and order Off Sale (lot fails)

13. CALCULATE THE PERCENT ERROR AND THE TOTAL DOLLAR VALUE

Category B, Random Pack

- 3. <u>BASIC INFORMATION:</u> Use Table 2-2 (page 8-38) to look up Sample Size, Initial Tare Sample Size, and Number Minus Errors Allowed to Exceed the MAV.
- 4. <u>SAMPLE AND INITIAL TARE SAMPLE SELECTION:</u> Table 2-2 (page 8-38)
- 5. <u>TARE DETERMINATION:</u> Include more Tare Sample Packages if needed
- 6. <u>PACKAGE ERRORS</u>: Determine and record package errors for the sample

Summary, Category B

- 7. <u>MAXIMUM ALLOWABLE VARIATION:</u> Look up MAV for lightest package by using Table 2-9 (page 8-48).
- 8. TOTAL ERROR CALCULATION
- 9. <u>UNREASONABLE MINUS ERRORS (UME)</u>: Identify by circling
- 10. <u>DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA:</u> Does the Number of Unreasonable Minus Errors (UME) exceed the Number Allowed?
 - ► If yes, REJECT and order Off Sale (lot fails). Compute Average Error (AE) and skip to Step 13 if AE is minus.
 - ► If no, continue inspection
- 11. AVERAGE ERROR (AE) CALCULATION
- 12. DETERMINE LOT COMPLIANCE
 - ► If AE is zero or plus, ACCEPT (lot passes)
 - ▶ If AE is minus, REJECT and order Off Sale (lot fails)
- 13. CALCULATE THE PERCENT ERROR AND THE TOTAL DOLLAR VALUE OF THE ERROR

Category C Inspections: Commodities Labeled With a Count of 50 or Less

- 3. <u>BASIC INFORMATION:</u> Use Table 2-11 (page 8-50) to look up Sample Size, Number of Packages Allowed to Contain Fewer Than the Labeled Count.
- 4. <u>MAXIMUM ALLOWABLE VARIATION (MAV)</u>: Use Table 2-7 (page 8-46) to look up the Maximum Allowable Variation (MAV).
- 5. <u>SAMPLE SELECTION:</u> Take a random sample from the lot
- 6. <u>PACKAGE ERROR DETERMINATION:</u> Count items and determine amount in container
- 7. TOTAL ERROR CALCULATION
- 8. <u>MINUS ERRORS</u>: Count the number of packages having minus errors
 - ► If the number of packages with minus errors exceeds the number allowed, REJECT and order Off Sale (lot fails). Go to Step 10.
 - ► If the number of packages with minus errors is less than or equal to the number allowed, ACCEPT the lot and continue to Step 9.
- 9. <u>UNREASONABLE MINUS ERRORS (UME)</u>: REJECT and order Off Sale any packages with minus errors larger than the MAV.
- 10. AVERAGE ERROR CALCULATION
- 11. IF AVERAGE ERROR IS MINUS, CALCULATE THE PERCENT ERROR AND THE TOTAL DOLLAR VALUE OF THE ERROR

INSTRUCTIONS, SAMPLING AND TESTING PROCEDURES

STEP 1. CATEGORY AND SAMPLING PLAN DETERMINATION

- ✓ Does this lot consist of packages <u>LABELED</u> with a count of 50 or less? If YES, this is CATEGORY C. The sampling plan outlined in Table 2-11 (page 8-50) is to be used. Category C is only used for this type of lot!
- ✓ Are you in an USDA (United States Department of Agriculture) plant testing meat or poultry? If YES, this is CATEGORY B and the plan from Table 2-2 (page 8-38) is to be used. This category is only for USDA plant inspections!
- ✓ If you are in any other testing location, or if the commodity is labeled with a count greater than 50, it is a CATEGORY A inspection. The sampling plan in Table 2-1 (page 8-38) is used to conduct the inspection.

STEP 2. PACKAGE INSPECTION REPORT (PIR) SELECTION

Select the PIR for the category of inspection. Complete the heading. Fill in the Labeled Content*, Box [1]. (If the package is labeled with both US and SI units, record both values, determine the larger, circle it and use that value in computing the error.) Record the Device Division [2], and Inspection Lot Size [5]. (See Explanation of Terms, Inspection Lot, page 8-33).

- * The labeled content for a random lot (Random Average) is determined after the sample has been selected.
- ✓ The Device Division is the division or graduation of the scale or other measuring device used for the commodity test.

CONTINUE TO THE INSTRUCTIONS FOR THE SPECIFIC INSPECTION CATEGORY: A, PAGE 8-12; B, PAGE 8-25; OR C, PAGE 8-31.

CATEGORY A

STEP 3. COMMODITY GROUPS

Decide the commodity group, **MLA** or **OTHER**, and which type of tare to use for the inspection.

<u>GROUP MLA (Moisture Loss Allowance)</u> - If you are <u>NOT</u> testing in the packing plant <u>AND</u> the commodity <u>IS</u>:

Flour

<u>Dry Pet Food</u> (Packaged in fiberboard boxes or kraft paper bags and labeled with a moisture content of 13% or less.)

The lot is classed as **MLA**, meaning it <u>does</u> have a Moisture Loss Allowance greater than 0%. For inspection, the tare method is **USED TARE (WET TARE)**.

The MLA for flour and dry pet food is **3%**.

Check the box for MLA and record the % (percentage) in the box following the \$ (price) per package or pound of the commodity.

Questions to determine if commodities other than the above are in Group MLA

- Is the commodity subject to Federal Agency regulations <u>except</u> for USDA Seed Laws or Environmental Protection Agency (EPA) regulations? If no, skip to **GROUP OTHER** (page 8-13). If yes, continue to the next question.
- 2. Is the commodity in distribution <u>or</u> are you testing in a packing plant regulated by the FDA? If no to both parts, skip to **GROUP OTHER** (page 8-13). If yes to either part of the question, continue to the next question.
- 3. Is the commodity packaged in a way that allows moisture to evaporate into the atmosphere? If no, skip to **GROUP OTHER** (page 8-13). If yes, the commodity is classified <u>GROUP MLA</u>, has a MLA greater than 0%, and the tare method is UNUSED OR DRIED USED TARE (DRY TARE).
- 4. Is the commodity packaged in a USDA meat or poultry plant? If yes, test using the tare method of **UNUSED OR DRIED USED TARE (DRY TARE)**.

GROUP MLA (Moisture Loss Allowance) - Continued

- ► The Food and Drug Administration (FDA) has recommended the following Moisture Loss Allowances (MLA) for these foods under their jurisdiction.
 - 1% Fresh baked breads, buns, rolls, and muffins when tested after the end of the packing day.

Frozen fruits and vegetables when tested seven or more days after the end of the packing day.

3% Bakery products other than fresh breads, buns, rolls, and muffins when tested after the end of the packing day.

Fresh or dried fruits and vegetables, cheese and cheese products, pasta, rice, and coffee beans when tested seven or more days after the end of the packing day.

A Moisture Loss Allowance (MLA) is given to the foods listed above when they are in distribution and, under certain circumstances, when they are being tested at the packing location. If the commodity is inspected prior to the time specified or at the packing location, the packer must present acceptable data documenting moisture loss before any MLA is permitted.

The criteria used to determine acceptable moisture loss documentation are outlined on page 6-6 and again on page 8-33.

▶ For all other MLA commodities, use a reasonable moisture loss allowance. Contact the Regional Price and Quantity Verification Special Investigator for assistance in determining a "reasonable" moisture loss allowance. Some, but not all, laboratory moisture loss verification procedures are outlined on pages 6-9 through 6-13.

Check the box for MLA commodities and record the % (percent) moisture allowance given in the box following the \$ (price) per package or pound.

<u>GROUP OTHER</u> - Any commodity that is not contained in MLA. This includes those items with a Moisture Loss Allowance of 0%.

THERE ARE TWO TYPES OF TARE USED FOR GROUP OTHER

1. USED TARE (WET TARE)

- a. Commodities inspected at a packing location, other than a USDA plant.
- b. Commodities under State regulation only. (Not federally regulated.)

2. UNUSED OR DRIED USED TARE (DRY TARE)

- a. Commodities with an established Moisture Loss Allowance of 0%, and meat or poultry packaged in a USDA regulated facility.
- b. Commodities regulated by the Environmental Protection Agency (EPA).
- c. Commodities under the jurisdiction of the USDA Seed Laws.
- d. Commodities packaged in sealed containers where moisture cannot evaporate into the atmosphere, and commodities in containers where if there were to be any moisture purged from, or separated from the commodity, it would still be in the container (plastic vacuum packs, cans, bottles, jars, etc.). If this type of container holds a commodity regulated by the FDA, USDA or BATF/TTB, moisture loss is considered and determined to be 0% as any lost or purged moisture is still contained in the package.
- e. Commodities which by their nature do not lose moisture: for example, metal pipe, plastic cups, paper towels, etc.

CATEGORY A, STANDARD PACK COMMODITIES

(For Category A, Random Pack Commodities, see Page 8-20)

STEP 4. BASIC INFORMATION

Using the Sampling Plan from Table 2-1 (page 8-38) record on the PIR: the Sample Size [6] Initial Tare Sample Size [7], Number of Minus Errors Allowed to Exceed the MAV (Unreasonable Minus Errors Allowed) [8], and Sample Correction Factor [22].

STEP 5. MAXIMUM ALLOWABLE VARIATION (MAV)

a. **Except for the items listed below**, use the appropriate Table 2-5, 2-6, 2-7, 2-8 or 2-9 (pages 8-42 to 8-48) to determine the MAV. Table 2-9 is used only for Meat and Poultry Products **packaged in** USDA plants. (USDA packages will be labeled with a USDA Establishment Number.)

Polyethylene Sheeting and Film (Table 2-10, page 8-49)

- Thickness: 4% of the labeled thickness, based on the average of the thickness measurements of a single package.
- Weight: 4% of the labeled weight.

Textiles (Table 2-10, page 8-49)

- Packages with any labeled dimensions less than 24 inches: 6% of the labeled dimension.
- Packages with all labeled dimensions 24 inches or more: 3%.

<u>Mulch and Soil:</u> (Table 2-10, page 8-49) 5% of the labeled volume. If the Sample Size is 12 or less, one package may exceed the MAV. For a sample size of 24, two packages may exceed the MAV. For a sample size of 48, four packages may exceed.

<u>Firewood:</u> Not a consideration for determining firewood compliance, MAVs do not apply.

- b. Record the value of the MAV in decimal form in [3].
- c. If the lot is in Group MLA, the MAV must be adjusted for the Moisture Loss Allowance (MLA).

Calculate the value of the MLA by multiplying the MLA in **decimal form** by the Labeled Contents **[1]**. Record this value in **[4A]**.

Add the MAV [3] to the MLA [4A]. Record in [4B], "ADJ MAV."

Note: Box [4A] is the same as box [13A] in NIST Handbook 133

STEP 6. SAMPLE AND INITIAL TARE SAMPLE

Randomly select the sample packages from the inspection lot. Mark or keep the packages in the same order as randomly selected. The first package randomly selected is the first Tare Sample package. The second random sample is the second, etc.

STEP 7. <u>TARE DETERMINATION</u>

If the errors are not determined by weight, go to STEP 8.

a. For each package in the Initial Tare Sample, weigh and record the value of the gross weight in the column under **[A]** and the tare weight in the column under **[B]**.

If the number of packages in the inspection lot is eleven or less, skip to Step 7g. (Both the initial tare sample size and the total tare sample size will be two.)

- b. Calculate the net weight for each package by subtracting from the gross **[A]**, the tare **[B]**. Record the net weight in the column under **[C]**. Except for WET TARE commodities containing ice, free-flowing liquids considered tare, or absorbent material; the net weight is not determined by direct weighing.
- c. Determine the error for each package in the initial tare sample by substracting the labeled content [1] from the net weight [C]. Record the error in the column under [D].
- d. Record the Range of Errors (R_c) in box **[9]** (the difference between the largest and smallest). Record the Range of Tare Weights (R_T) in **[10]**.
- e. Calculate and record in [11], the ratio of the range of errors, and range of tare weights, R_C/R_T . If the range of tare weights is zero, the ratio will be infinity.
- f. Use Ratio (R_C/R_T) column from Table 2-3 (page 8-39) to determine the total number of tare samples to be opened, record in **[12]**. If the ratio is infinity, the total number tare sample packages will remain the same as the initial tare sample.

For each additional tare sample, weigh and record the gross weight and tare weight.

g. Calculate the average tare weight by adding all the tare weights recorded under **[B]**, and dividing the total by the number of tares weighed.

Record the average tare in [13]

STEP 8. PACKAGE ERRORS

Determine and record the error for each package in the sample.

a. If errors <u>are not</u> determined by weight.

For each package in the sample, subtract from the measured net contents, the labeled contents. Record this value in the appropriate minus or plus column under **[E]**.

Go to Step 9.

b. If errors <u>are</u> determined by weight.

Weigh and record the value of the gross weight for each remaining sample package in the column under **[A]**.

Calculate the Nominal Gross Weight **[14]**, which is used to determine package errors, by adding the Average Tare Weight **[13]**, to the Labeled Contents **[1]**.

Determine the error for each sample package, **including the tare sample packages**, by subtracting from the Gross Weight **[A]**, the Nominal Gross Weight **[14]** of each package. Record in the appropriate minus or plus column under **[E]**.

STEP 9. TOTAL ERROR

Calculate and record the Total Error (TE) **[15]**, by algebraically totaling the sample package plus and minus errors.

STEP 10. UNREASONABLE MINUS ERRORS

Identify any Unreasonable Minus Errors (UME); i.e., minus errors that exceed the Maximum Allowable Variation (MAV) or the Adjusted MAV, when applicable.

Circle all minus errors greater than the MAV [3], or the Adjusted MAV [4B], when applicable.

STEP 11. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA

Count the number of UMEs circled in Step 10, record in **[16]** and check the appropriate section in **[17]**.

► If the number of UMEs [16] is greater than the number allowed [8], the inspection lot is REJECTED and ordered OFF SALE.

Finish the inspection by determining the Average Error as computed in Step 12. If the average error is minus, calculate the percent error and total dollar value, Step 15 (page 8-19).

Do not complete Steps 13 and 14.

▶ If the number of UMEs is equal to or less than the number allowed, continue to Step 12.

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STEP 12. <u>AVERAGE ERROR</u>

Divide the Total Error [15], by the Sample Size [6].

Record the Average Error in [18].

▶ If the Average Error is zero or a plus value, ACCEPT the inspection lot.

Check the appropriate section in [20]. (Note: Box [19] has been omitted.)

Do not complete Steps 13, 14 or 15. The inspection is complete

► If the Average Error is a minus value, continue to Step 13.

STEP 13. CALCULATE THE SAMPLE ERROR LIMIT (SEL)

- a. Compute the Sample Standard Deviation, and record in [21].
- b. Multiply the Sample Standard Deviation by the Sample Correction Factor [22]. Record this value in [23].
- **STEP 14.** <u>DETERMINE LOT COMPLIANCE WHEN THE AVERAGE ERROR [18] IS MINUS.</u> (If the average error is zero or plus, the lot status has already been determined.)

GROUP MLA

- ► If the Average Error [18] (omitting the minus sign) is less than or equal to the SEL [23], the lot is ACCEPTED.
- ▶ If the Average Error [18] (omitting the minus sign) is greater than the SEL + MLA ([23] + [4A]), the lot is REJECTED and ordered OFF SALE.
- ► If the Average Error [18] (omitting the minus sign) is greater than the SEL [23], AND less than or equal to the SEL + MLA ([23] + [4A]), the lot is in the Gray Area. This is a no decision area, the lot is neither accepted nor rejected, the status is not determined. Further investigation is necessary to rule out moisture loss as the reason for the shortage.

GROUP OTHER

- If the Average Error [18] (omitting the minus sign) is less than or equal to the SEL [23], the lot is ACCEPTED.
- ► If the Average Error [18] (omitting the minus sign) is greater than the SEL [23], the inspection lot is REJECTED and ordered OFF SALE.

STEP 15. PERCENT ERROR AND TOTAL DOLLAR VALUE OF THE ERROR

Complete this step only if the average error is a minus value.

a. Divide the Average Error [18] by the Labeled Contents [1].

Multiply this value (\Rightarrow) by 100 to determine the Percent Error.

b. Multiply the value (☆) by the Inspection Lot Size [5] and the Price Per Package to determine the Total Dollar Value. Do not round up the final value (i.e., \$0.478 is written as \$0.47).

CATEGORY A, RANDOM PACK COMMODITIES

(For Category A, Standard Pack Commodities see Page 8-15)

STEP 4. BASIC INFORMATION

Using the Sampling Plan from Table 2-1 (page 8-38) record on the PIR the Sample Size **[6]**, Initial Tare Sample Size **[7]**, Number of Minus Errors Allowed to Exceed the MAV (Unreasonable Minus Errors Allowed) **[8]**, and Sample Correction Factor **[22]**.

STEP 5. <u>SAMPLE AND INITIAL TARE SAMPLE</u>

- a. Randomly select the sample packages from the inspection lot. Mark or keep the packages in the same order as randomly selected. The first package randomly selected is the first Tare Sample package; the second random sample is the second, etc.
- b. Record the labeled contents of each sample package in the column under [1]. Total the labeled net contents and determine the average, record this value in box [1]. Use the letters "RA" to indicate this is the Random Average.

STEP 6. <u>TARE DETERMINATION</u>

If errors are not determined by weight, go to Step 7, page 8-21.

a. For each package in the Initial Tare Sample, weigh and record the value of the gross weight in the column under **[A]** and the tare weight in the column under **[B]**.

If the number of packages in the inspection lot is eleven or less, skip to Step 6g. (Both the initial tare sample size and the total tare sample size will be two.)

- b. Calculate the net weight for each package by subtracting from the gross [A], the tare [B]. Record the value in the column under [C]. Except for WET TARE commodities containing ice, free flowing liquids considered tare, or absorbent material, the net weight is not determined by direct weighing.
- c. Determine the error for each package in the initial tare sample by subtracting the labeled content [1] from the net weight [C]. Record the error in the column under [D].
- d. Record the Range of Errors (R_c) [9] (the difference between the largest and smallest), and the Range of Tare Weights (R_T) [10].
- e. Calculate, and record in [11], the ratio range of the errors and range of tare weights (R_C/R_T) if the range of tare weights is zero, the ratio will be infinity.
- f. Use Ratio (R_C/R_T) column from Table 2-3 (page 8-39) to determine the total number of tare samples to be opened and record in **[12]**. If the ratio is infinity, the number of tare sample packages will remain the same as the initial tare sample.

For each additional tare sample, weigh and record the gross weight and tare weight.

g. Calculate the average tare weight by adding all the tare weights recorded under **[B]**, and dividing the total by the number of tares weighed.

Record the average tare in [13].

STEP 7. <u>PACKAGE ERRORS</u>

Determine and record the error for each package in the sample.

a. If errors <u>are not</u> determined by weight.

For each package in the sample, subtract from the measured net contents, the labeled contents. Record in the appropriate minus or plus column under **[E]**. Go to Step **8**.

If errors are determined by weight.

Do not use box [14].

Determine the error for each sample package, **including the tare sample packages**, by subtracting from the Gross Weight **[A]**, the Average Tare Weight **[13]**, and the Labeled Contents **[1]** of each package. Record in the appropriate minus or plus column under **[E]**.

STEP 8. MAXIMUM ALLOWABLE VARIATION (MAV)

a. The MAV must be determined individually for each package in the sample. **Except for the items listed below,** use the appropriate Table, 2-5, 2-6, 2-7, 2-8 or 2-9 (pages 8-42 to 8-48) to determine the MAV. Table 2-9 is used for Meat and Poultry Products **packaged** in USDA plants. (USDA packages will be labeled with a USDA Establishment Number.)

Polyethylene Sheeting and Film (Table 2-10 on page 8-49)

- Thickness: 4% of the labeled thickness, based on the average of the thickness measurements of a single package.
- Weight: 4% of the labeled weight.

Textiles (Table 2-10 on page 8-49)

- Packages with any labeled dimensions less than 24 inches: 6% of the labeled dimension.
- Packages with all labeled dimensions 24 inches or more: 3%.

<u>Mulch and Soil:</u> (Table 2-10 on page 8-49) 5% of the labeled volume. If the Sample Size is 12 or less, one package may exceed the MAV. For a Sample Size of 24, two packages may exceed the MAV. For a Sample Size of 48, four packages may exceed.

<u>Firewood</u>: Not a consideration for determining firewood compliance, MAVs do not apply.

- b. Look up the MAV for the package with the smallest labeled contents and record it in the column under [3] "MAV from table."
- c. If the lot is in Group MLA, the MAV must be adjusted for the Moisture Loss Allowance (MLA).

For the package with the smallest labeled content, calculate the value of the MLA by multiplying the MLA in decimal form by the package's Labeled Content (from the column under [1]). Record in the column under box [4A].

Note: Box [4A] is the same as box [13A] in NIST Handbook 133.

Add the MAV [3] to the MLA [4A]. Record this value in the column under [4B] "ADJ MAV."

d. If all minus package errors are less than the value of this MAV (or adjusted MAV), it is not necessary to continue as there will be no unreasonable minus errors. If any error is greater than the MAV (or adjusted MAV), repeat Steps **8b** and **8c** for each sample package having a minus error.

STEP 9. TOTAL ERROR

Calculate and record the Total Error (TE) **[15]** by algebraically totaling the sample package plus and minus errors.

STEP 10. UNREASONABLE MINUS ERRORS

Identify any Unreasonable Minus Errors (UME); i.e., minus errors that exceed the Maximum Allowable Variation (MAV) or the Adjusted Maximum Allowable Variation when applicable.

Circle all minus errors greater than the MAV, or Adjusted MAV, recorded for each sample package in the applicable column under [3] or [4B].

STEP 11. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA

Count the number of UMEs circled in Step 10. Record this number in [16] and check the appropriate section of [17].

► If the number of UMEs [16] is greater than the number allowed [8], the inspection lot is REJECTED and ordered OFF SALE.

Finish the inspection by determining the Average Error as computed in Step **12**. If the average error is minus, calculate the percent error and total dollar value, Step **15**, page 8-24.

Do not complete Steps 13 and 14.

▶ If number of UMEs is equal to or less than the number allowed, continue to Step 12.

STEP 12. AVERAGE ERROR

Divide the Total Error [15] by the Sample Size [6]. Record this value in [18].

▶ If the Average Error is zero or a plus value, ACCEPT the inspection lot. Check the appropriate section in [20]. (Note: Box [19] has ben omitted.)

Do not complete Steps 13, 14 or 15. The inspection is complete.

▶ If the Average Error is a minus value, continue.

STEP 13. CALCULATE THE SAMPLE ERROR LIMIT (SEL)

- a. Compute the Sample Standard Deviation and record in [21].
- b. Multiply the Sample Standard Deviation by the Sample Correction Factor [22]. Record this value (SEL) in [23].

STEP 14. <u>DETERMINE LOT COMPLIANCE - AVERAGE ERROR [18] IS MINUS</u> (If the average error is zero or plus, the lot status has already been determined.)

<u>If the commodity is in Group MLA</u>: Calculate and record the value of the MLA for the lot **[4A]**, by multiplying the decimal percentage value of the MLA by the Random Average (Labeled Contents) **[1]**.

GROUP MLA

- ► If the Average Error [18] (omitting the minus sign) is less than or equal to the SEL [23], the lot is ACCEPTED.
- ▶ If the Average Error [18] (omitting the minus sign) is greater than the SEL + MLA ([23] + [4A]), the lot is REJECTED and ordered OFF SALE.
- ► If the Average Error [18] (omitting the minus sign) is greater than the SEL [23], AND less than or equal to the SEL + MLA ([23] + [4A]), the lot is in the Gray Area. This is a no decision area, the lot is neither accepted nor rejected, and the status is not determined. Further investigation is necessary to rule out moisture loss as the reason for the shortage.

GROUP OTHER

- ► If the Average Error [18] (omitting the minus sign) is less than or equal to the SEL [23], the lot is ACCEPTED.
- ▶ If the Average Error [18] (omitting the minus sign) is greater than the SEL [23], the inspection lot is REJECTED and ordered OFF SALE.

STEP 15. PERCENT ERROR AND TOTAL DOLLAR VALUE OF THE ERROR

Complete this step only if the average error is a minus value.

a. Divide the Average Error [18] by the Random Average (Labeled Contents) [1].

Multiply this value (\Rightarrow) by 100 to determine the Percent Error.

b. Multiply the value (☆) by the Inspection Lot Size [5] the Price per Pound, and the Random Average (Labeled Contents) [1] to determine the Total Dollar Value. (If not testing by weight, use the price per unit instead of the price per pound.) Do not round up the final value (i.e., \$0.478 is written as \$0.47).

CATEGORY B, STANDARD PACK COMMODITIES

USED ONLY WHEN TESTING IN A USDA INSPECTED PACKING PLANT

(For Category B, Random Pack Commodities, see Page 8-28)

STEP 3. BASIC INFORMATION

Using the Sampling Plan from Table 2-2 (page 8-38) look up and record on the (PIR): the Sample Size **[6]**, Initial Tare Sample Size **[7]**, and the Number of Minus Errors Allowed to Exceed the MAV (Unreasonable Errors Allowed) **[8]**.

STEP 4. MAXIMUM ALLOWABLE VARIATION (MAV)

- a. Use Table 2-9 (page 8-48) to look up the MAV.
- b. Record the MAV in decimal form in [3] "MAV from table."

STEP 5. <u>SAMPLE AND INITIAL TARE SAMPLE SELECTION</u>

Randomly select the sample packages from the inspection lot. Mark or keep the packages in the same order as randomly selected. The first package randomly selected is the first Tare Sample package. The second random sample is the second, etc.

STEP 6. <u>TARE DETERMINATION</u> Only Unused or Dried Used Tare (Dry Tare) is to be used when conducting tests in USDA plants.

a. For each package in the Initial Tare Sample, weigh and record the value of the gross weight **[A]** and the tare weight **[B]**.

If the number of packages in the inspection lot is eleven or less, skip to Step 6g. (Both the initial tare sample size and the total tare sample size will be two.)

- b. Calculate the net weight by subtracting from the gross **[A]**, the tare **[B]**. Record in **[C]**. The net weight is always determined by subtracting the tare from the gross. It is not weighed directly.
- c. Determine the error for each package in the initial tare sample by subtracting the labeled content [1] from the net weight [C]. Record in [D].
- d. Record the Range of Errors (R_c) [9] (the difference between the largest and smallest), and the Range of Tare Weights (R_T) [10].
- e. Calculate and record in **[11]** the ratio of the range of errors and the range of tare weights (R_C/R_T) . If the range of tare weights is zero, the ratio will be infinity.

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f. Use Ratio, R_C/R_T, column from Table 2-4 (page 8-41) to determine the total number of tare samples to be opened, record in **[12]**. If the ratio is infinity, the number of tare sample packages will remain the same as an initial tare sample.

For each additional tare sample, weigh and record the gross weight and tare weight.

g. Calculate the average tare weight by adding all of the tare weights recorded under **[B]** and dividing the total by the number of tares weighed.

Record the average tare in [13].

STEP 7. <u>PACKAGE ERRORS</u>

Weigh and record the value of the gross weight for each remaining sample package in the column under [A].

Calculate the Nominal Gross Weight **[14]** (which is used to determine package errors), by adding the Average Tare Weight **[13]** to the Labeled Contents **[1]**.

Determine the error for each sample package, **including the tare sample packages**, by subtracting from the Gross Weight **[A]**, the Nominal Gross Weight **[14]** of each package. Record in the appropriate minus or plus column of Section **[E]**.

STEP 8. <u>TOTAL ERROR</u>

Calculate and record the Total Error (TE) **[15]** by algebraically totaling the sample package plus and minus errors.

STEP 9. UNREASONABLE MINUS ERRORS

Identify any Unreasonable Minus Errors (UME); i.e., minus errors that exceed the Maximum Allowable Variation (MAV).

Circle all minus errors greater than the MAV [3]. Note box [4] has been omitted.

STEP 10. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA

Count the number of UME's circled in Step 9, record in [16] and check the appropriate section of [17].

► If the number of UME's [16] is greater than the number allowed [8], the inspection lot is REJECTED and ordered OFF SALE.

Finish the inspection by determining the Average Error as computed in Step **11**. If the average error is minus, calculate the Percent Error and Total Dollar Value, Step **13**, page 8-27.

Do not complete Step 12

STEP 11. AVERAGE ERROR

Divide the Total Error [15] by the Sample Size [6].

Record the average Error in [18].

STEP 12. DETERMINE LOT COMPLIANCE

▶ If the Average Error [18] is zero or plus value, ACCEPT the inspection lot. Check the appropriate section of [19].

Do not complete Step 13. The inspection is complete.

▶ If the Average Error **[18]** is minus, the inspection lot is REJECTED and ordered OFF SALE. Continue to Step 13.

STEP 13. PERCENT ERROR AND TOTAL DOLLAR VALUE OF THE ERROR

Complete this step only if the average error is a minus value.

- a. Divide the Average Error **[18]** by the Labeled Contents **[1]**. Multiply this value (☆) by 100 to determine the Percent Error.
- b. Multiply the value (☆) by the Inspection Lot Size [5] and the Price per Package to determine the Total Dollar Value. Do not round up the final value (i.e., \$0.478 is written as \$0.47).

CATEGORY B, RANDOM PACK COMMODITIES

(For Category B, Standard Pack Commodities, see Page 8-25)

STEP 3. BASIC INFORMATION

Using the Sampling Plan from Table 2-2, page 8-38, look up and record on the PIR: the Sample Size **[6]**, Initial Tare Sample Size **[7]**, and the Number of Minus Errors Allowed to Exceed the MAV (Unreasonable Errors Allowed) **[8]**.

STEP 4. <u>SAMPLE AND INITIAL TARE SAMPLE</u>

- a. Randomly select the sample packages from the inspection lot. Mark or keep the packages in the same order as randomly selected. The first package randomly selected is the first Tare Sample package. The second random sample is the second Tare Sample package, etc.
- b. Record the labeled contents of each sample package in the column under [1]. Total and determine the random average, record in [1]. Use the letters "RA" to indicate this is the random average.

STEP 5. <u>TARE DETERMINATION</u> Only Unused or Dried Used Tare (Dry Tare) is to be used.

a. For each package in the Initial Tare Sample, weigh and record the value of the gross weight **[A]** and the tare weight **[B]**.

If the number of packages in the inspection lot is eleven or less, skip to Step 5g. (Both the initial tare sample size and the total tare sample size will be two.)

- b. Calculate the net weight for each package by subtracting from the gross **[A]**, the tare **[B]**. Record in **[C]**. The net weight is always determined by subtracting the tare from the gross. It is not weighed directly.
- c. Determine the error for each package in the initial tare sample by subtracting the labeled content [1] from the net weight [C]. Record in [D].
- d. Record the Range of Errors (R_c) [9] (the difference between the largest and smallest), and the Range of Tare Weights (R_T) [10].
- e. Calculate and record in **[11]** the ratio of the range of errors and range of tare weights, R_C/R_T . If the range of tare weights is zero, the ratio will be infinity.
- f. Use Ratio (R_C/R_T) column from Table 2-4, page 8-41, to determine the total number of tare samples to be opened. Record in **[12]**. If the ratio is infinity, the number of tare sample packages will remain the same as the Initial Tare Sample. For each additional tare sample, weigh and record the gross weight and tare weight.
- g. Calculate the average tare weight by adding all of the tare weights recorded under **[B]** and dividing the total by the number of tares weighed.

Record the average tare in [13].

STEP 6. <u>PACKAGE ERRORS</u> Determine and record the error for each package in the sample.

Do not use box [14].

Weigh and record the value of the gross weight for each remaining sample package in the column under [A].

Determine the error for each sample package, **including the tare sample packages**, by subtracting from the Gross Weight **[A]**, the Average Tare Weight **[13]**, and the Labeled Contents **[1]**, of each package. Record in the appropriate minus or plus column of Section **[E]**.

- **STEP 7.** <u>MAXIMUM ALLOWABLE VARIATION (MAV)</u> The MAV must be determined individually for each package in the sample.
 - a. Using Table 2-9 (page 8-48) look up the MAV for the package with the smallest labeled contents and record it in the column under **[3]**, "MAV from table."
 - b. If all minus package errors are less than the value of this MAV, it is not necessary to continue as there will be no unreasonable minus errors. If any error is greater than the MAV, repeat Step **7a** for each sample package having a minus error.

STEP 8. TOTAL ERROR

Calculate and record the Total Error (TE) **[15]**, by algebraically totaling the sample package plus and minus errors.

STEP 9. UNREASONABLE MINUS ERRORS

Identify any Unreasonable Minus Errors (UME); i.e., minus errors that exceed the Maximum Allowable Variation (MAV).

Circle all minus errors greater than the MAV recorded for each sample package in the column under [3]. Note Box [4] has been omitted.

STEP 10. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA

Count the number of UME's circled according to Step 9, record in [16] and check the appropriate section of [17].

► If the number of UME's [16] is greater than the number allowed [8], the inspection lot is REJECTED and ordered OFF SALE.

Finish the inspection by determining the "Average Error" as computed in Step 11. If the average error is minus, calculate the percent error and total dollar value, Step 13.

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STEP 11. AVERAGE ERROR

Divide the Total Error [15] by the Sample Size [6].

Record the average error in [18].

STEP 12. DETERMINE LOT COMPLIANCE

▶ If the Average Error [18] is zero or plus, the lot is ACCEPTED.

Do not complete Step 14. The inspection is complete.

▶ If the Average Error [18] is minus, the inspection lot is REJECTED and ordered OFF SALE. Check the appropriate box in [19] and continue to Step 13.

STEP 13. PERCENT ERROR AND TOTAL DOLLAR VALUE OF THE ERROR

Complete this step only if the average error is a minus value.

- a. Divide the Average Error **[18]** by the Random Average (Labeled Contents) **[1]**. Multiply this value (☆) by 100 to determine the Percent Error.
- b. Multiply the value (☆) by the Inspection Lot Size **[5]**, the Price per Pound, and the Random Average Weight **[1]** to determine the Total Dollar Value. Do not round up the final value (i.e., \$0.478 is written as \$0.47).

CATEGORY C: USED ONLY FOR PACKAGES LABELED WITH A COUNT OF 50 OR LESS

STEP 3. BASIC INFORMATION

Using the Sampling Plan from Table 2-11 (page 8-50) look up and record on the Package Inspection Report (PIR), the Sample Size [6] and Number of Packages Allowed to Contain Fewer Than the Labeled Count [8]. Note: Box [3] has been removed from this Category's form.

STEP 4. MAXIMUM ALLOWABLE VARIATION (MAV)

Use Table 2-7 (page 8-46) to look up the MAV. Record in [8A].

STEP 5. <u>SAMPLE SELECTION</u>

Randomly select the Sample Packages from the inspection lot.

STEP 6. <u>PACKAGE ERRORS</u>

Determine and record the error for each package in the sample in the appropriate minus or plus column under **[E]**.

STEP 7. <u>TOTAL ERROR</u>

Calculate and record the Total Error (TE) **[15]** by totaling the sample package plus and minus errors.

- **STEP 8.** <u>MINUS ERRORS</u> Count the number of packages having minus errors of 1 or more. (Ignore any decimal values, do not round.) Record the number counted in **[16]**.
 - ► If the total number of packages with minus errors [16] exceeds the Number Allowed [8], the inspection lot is REJECTED and OFF SALE. Go to **STEP 10**.
 - ▶ If the total number of packages with minus errors [16] is less than or equal to the number allowed [8], ACCEPT the lot, and continue to STEP 9.

STEP 9. UNREASONABLE MINUS ERRORS

Identify and order OFF SALE any packages with minus errors larger than the MAV [8A].

STEP 10. <u>AVERAGE ERROR</u>

Calculate the Average Error [18], by dividing the Total Error [15] by the Sample Size [6].

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STEP 11. PERCENT ERROR AND TOTAL DOLLAR VALUE OF THE ERROR

Complete this step only if the average error is a minus value.

- a. Divide the Average Error **[18]** by the number of units in the Labeled Contents **[1]**. Multiply this value (☆) by 100 to determine the Percent Error.
- b. To determine the Total Dollar Value, multiply the value (☆) by the Inspection Lot Size [5], and the Price Per Package. Do not round up the final value (i.e., \$0.478 is written as \$0.47).

EXPLANATION OF TERMS

Acceptable Data for Moisture Loss Allowance at the Packing Location (FDA):

The data must be computed on a daily basis using the average moisture loss determined in environmental conditions similar to those that exist when the product is being inspected.

At least three sample control lots, consisting of at least 48 randomly selected packages, must be used to develop the moisture loss data. The three sample control lots must be placed at various locations in the storage site. Each sample must be stored under the same conditions as are typical for the product. Moisture loss data obtained by removing the individual packages from shipping cases and storing them in a laboratory would not be acceptable.

The weight of each package in each of the sample control lots is determined every day for seven days, except that fresh bakery products are weighed hourly. The average moisture loss value must be computed from the three sample control lots with a 95% prediction interval.

Example: An official visits a pet food plant in Los Angeles in the middle of July to conduct a pointof-pack inspection. If the product tested had been packaged five days before the inspection and is found underweight, the moisture loss data must reflect the loss that would occur in July, not January. If the product is typically placed in a sealed case on a pallet and shrink wrapped, the sample lots must be stored under the same conditions.

<u>Device Division:</u> The division/graduation of the scale, or other device, used to conduct the test for compliance with net content requirements.

<u>MLA Computations:</u> If the MLA (Moisture Loss Allowance) is stated as a percentage, it must be converted to decimal form to be used in computations.

Example: Calculate the MLA and adjusted MAV (Maximum Allowable Variation). For a lot of Dry Pet Food in fiberboard box.

Labeled Net Weight: 12 ounces (340 grams) Moisture Loss Allowance = 3% (from page 8-12, Step 3) MAV: 9/16 ounce, 0.036 pound, or 16.3 grams (Table 2-5, page 8-42) 8-34 Rev. 11/09

MLA Computations (Continued):

MLA: 12 oz labeled weight

3% MLA ÷ 100 = 0.03

 $12 \text{ oz } \times 0.03 = 0.36 \text{ oz}$

MAV from Table

9/16 oz = 0.5625 oz

Adjusted MAV: (MLA + MAV) 0.36 oz + 0.5625 oz = 0.9225

<u>Inspection Lot</u>: A collection of identically labeled packages (except for quantity for random packages) available for inspection at one time. The packages in the Inspection Lot will pass or fail as a whole based on the results of the tests of a sample of packages drawn from the Inspection Lot. At retail it is not necessary to sort by lot codes, but to enable follow-up, all codes included in the sample are to be recorded on the report.

<u>Nominal Gross Weight:</u> The sum of the labeled weight and the average tare. It is the value that will be compared with the gross weight of a package to determine the package error. For example, when testing a lot of cereal packages with a labeled weight of 15 oz, the average tare is found to be 1.4 oz. Adding these two values results in a nominal gross weight of 16.4 oz. The first sample package of cereal is placed on the scale, and weighs 15.8 oz, gross (including tare). To determine the package error, the nominal gross weight is subtracted from the measured gross weight; 5.8 - 6.4 = -0.6 oz error.

<u>Random Pack Lot:</u> A collection of packages of a commodity with identical labels, **except** for the net weight. For example, bricks of cheese labeled: Extra Sharp Cheddar, Audrey Cheese Company, Sell by April 1' 96, each having a different labeled net weight ranging from 0.94 lb to 1.64 lb.

<u>Sample Error Limit</u>: A statistical value that allows for the uncertainty between the sample average error and the inspection lot average error. The Sample Error Limit or SEL is determined by multiplying the lot's sample standard deviation by a correction factor that takes into consideration the lot size (see Table 2-1 Sampling Plans for Category A).

<u>Standard Pack Lot:</u> A collection of packages of a commodity with identical labels, all with the same net weight. For example, bricks of cheese labeled: Extra Sharp Cheddar, Audrey Cheese Company, Sell by April 1'96, Net Weight 1 lb, 454 grams.

<u>Standard Deviation of a Sample:</u> The direct measure of variation of the individual package errors from the average of the package errors in the sample. To calculate manually, the following formula is the simplest to use.



- means the sum of
- л×М means the individual package errors means the sample size
- (number of items in the sample)

minus, the square of the sum of the individual package errors divided by the number of the items in the sample, divided by the number of items in the sample minus one. Written out, this is the square root of: the sum of the squares of the individual package errors

Example: The recorded errors for a 12-item sample are:

×	0	' ' → (5 N	+ 2	0	- ->	- ω	- 2	- 4	- ω	+	Xi
x _i -16 x _i ² 58	0	<u>_</u> ر	4 0	4	0	-	9	4	16	9	-	X_i^2
õ												
				$\sqrt{\frac{\sum X_i}{\sum}}$	$\sum_{i=1}^{n}$							
			V (n - 1)	- (∠x _i) /								
					5							

Calculate the square root of: <u>58 - [(-16)² / 12]</u> (12-1)

<u>58 - (256 / 12)</u> 11

<u>58 - 21.33</u> 11

Both the square root and the Standard Deviation are 1.82.

<u>36.67</u> 11

<u>Tare:</u> Unless otherwise provided, tare includes all material, substances, or items not included in the required declaration of identity. Any substances that are absorbed by the packaging material and any ice or ice glaze in the package of a product, except when the product is ice shall be considered tare. Tare also includes glue, labels, ties, prizes, coupons, decorations, etc., which are not an essential part of the product.

<u>Dried Used Tare:</u> Used tare material dried in order to approximate Unused Tare. Nonabsorbent materials are cleaned and wiped dry. Absorbent materials are cleaned and dried of absorbed fats and fluids. Soakers are pressed as dry as possible between toweling, using a rolling pin or some method to dry toweling appropriately. For purposes of these sampling and testing procedures, DRIED USED TARE is also known as DRY TARE.

Dry Tare: See UNUSED TARE and DRIED USED TARE.

<u>Unused Tare:</u> New tare material that has never been used in the packaging of a commodity. Also known as DRY TARE.

<u>Used Tare:</u> Used tare material which has not been dried or cleaned. Used tare includes any substances absorbed by the packaging material, free-flowing liquids, and any ice or ice glaze except when the product is ice. Also known as WET TARE.

Wet Tare: See USED TARE

FEDERAL AGENCIES AND REGULATED COMMODITIES

THESE AGENCIES ALLOW FOR MOISTURE LOSS:

FEDERAL FOOD AND DRUG ADMINISTRATION (FDA)

Food and drink for man or animal, chewing gum, and components of same.

Devices intended for use in the diagnosis, cure, mitigation, treatment or prevention of disease in man or animal, or to affect the structure or function.

Drugs intended for the treatment or prevention of disease, or articles intended to affect the structure or function of the body of man or animal.

Cosmetics, fragrances, and cleansing agents (except for medicated soap).

UNITED STATES DEPARTMENT OF FOOD AND AGRICULTURE (USDA)

Meat and poultry, and meat and poultry products

BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS, TREASURY DEPARTMENT (BATF)

FEDERAL TRADE COMMISSION (FTC)

Consumer commodities consumed when used about the person or home.

Adhesives and sealants

Air fresheners

Cleaning and laundry compounds, household supplies

Waxes and polishes

THESE AGENCIES DO NOT ALLOW FOR MOISTURE LOSS:

ENVIRONMENTAL PROTECTION AGENCY (EPA)

Disinfectants, germ-killing, or germ-proofing products

Insecticides, fungicides, and herbicides

UNITED STATES DEPARTMENT OF FOOD AND AGRICULTURE (USDA)

Agricultural Seeds

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1	2	3	4	5	
Inspection Lot Size (N)	Sample Size (n)	Sample Correction Factor	Number of Minus Package Errors Allowed to Exceed the MAV (Also known as Unreasonable Minus Errors - UME's)	Initial Tare Sa Size ^a (n _t)	ample
1	1	Apply MAV		Glass and Aerosol Packages	All Other Packages
2	2	8.984			
3	3	2.484			
4	4	1.591			
5	5	1.241			
6	6	1.050	0	2	2
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	0.291	1	5	
Sample E	rror Limit ((SEL) = sample stand	ard deviation x sample cor	rection factor (colum	n 3)

Table 2-1. Sampling Plans for Category A

^a Tare Procedures - Obtain the "initial tare sample" from the sample selected from the inspection lot. Keep the packages in the order in which their corresponding random numbers were obtained. The "initial tare sample" packages are the first 2, 3, or 5 packages (as appropriate for the sample size) of the sample. Used dried tare weights are determined by emptying, cleaning, drying (if necessary), and weighing all packaging materials. For Standard Lots, determine the range of tare weights (R_t) and range of net weights (R_c). For Random Lots determine the range of tare weights (R_t) and range of errors (R_c). Compute R_c/R_t and look up this value in Table 2.3 (or 2.4 if Category B). Determine if additional packages must be opened and measured to determine an average tare.

Note: If the Sample Size is 11 or less, both the initial tare sample size and the total tare sample size is 2. There is no need to compute R_0/R_t or to take additional tare samples.

Table 2-2. Sampling Plans for Category BUse Only for Testing Meat and Poultry Products in Federally Inspected Plants

1	2	3	4
Inspection Lot Size (N)	Sample Size (n)	Initial Tare Sample Size ^a (n _t)	Number of minus package errors allowed to exceed the MAVs in Table 2-9. U.S. Department of Agriculture, Meat and Poultry, Groups and Lower Limits for Individual Packages (Also known as Unreasonable Minus Errors-UME's)
250 or less	10	2	0
251 or more	30	5	0

^a See note "a" to Table 2-1 above.

Table 2-3. Category A – Total N Numbers Include those					minatior
Ratio of R _c /R _t		-	f Packages in	-	
Sample Size	12		24	48	3
Initial Tare Sample Size	2	2	3	2	3
If Rt equals "zero," use Initial Tare					
Sample Size.					
f the ratio is "zero" based on a "zero"	2	2	3	2	3
R _c open all of the packages in the					
sample.					
If the ratio is greater than 0 but less	12	24	24	48	48
than or equal to 0.2	10	0.1	<u>.</u>	10	10
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	14	27	27
4.01 to 4.10	7	13	13	26	26
4.11 to 4.20 4.21 to 4.30	6	13	13	20	20
4.31 to 4.40	6	13	13	25	25
4.31 to 4.40	6	12	12	23	23
4.61 to 4.70	6	12	12	24	24
4.01 to 4.70	6	12	12	23	23
	6	11	11	23	23
4.81 to 4.90 4.91 to 5.00	<u>6</u> 5	11	11	22	22

Go to Next Page for Additional Values.

Category A – Total Nun Numbers Include tl	nber of Pack	-3. (Continu kages to be (ges Opened	Opened for 7	Tare Determina re Sample	ation
Ratio of R _c /R _t		Total Number	^r of Packages	in Tare Sample)
Sample Size	12	2	4	48	
Initial Tare Sample Size	2	2	3	2	3
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 – Total Number of Packages to be Opened for Tare Determination Numbers Include those Packages Opened for Initial Tare Sample				
Ratio of R _c /R _t	Total Number of Packages in Tare Sample			
Sample Size	10	30		
Initial Tare Sample Size	2	5		
If R_t equals "zero" range, use Initial Tare Sample Size. If the ratio is "zero" based on a "zero" R_c 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		

	SI Un	its	Inch-	Pound Units		
Labeled \	Weight ^b	MAV	Labeled Weight ^b	MAV		
grams	s (g)	Grams (g)	Pound (Ib) or Ounce (oz)	Decimal Pound (lb)	Fractional Ounce (oz)	
<u><</u> 3	6	10% of labeled quantity	≤ 0.08 lb ≤ 1.28 oz	10% of labeled	d quantity	
> 36	54	3.6	> 0.08 lb \le 0.12 lb > 1.28 oz \le 1.92 oz	0.008	1/8	
> 54	81	5.4	> 0.12 lb \leq 0.18 lb > 1.92 oz \leq 2.88 oz	0.012	3/16	
> 81	117	7.2	> 0.18 lb \leq 0.26 lb > 2.88 oz \leq 4.16 oz	0.016	1/4	
> 117	≤ 154	9.0	> 0.26 lb \leq 0.34 lb > 4.16 oz \leq 5.44 oz	0.020	5/16	
> 154	≤ 208	10.8	> 0.34 lb \leq 0.46 lb > 5.44 oz \leq 7.36 oz	0.024	3/8	
> 208	≤263	12.7	> 0.46 lb \leq 0.58 lb > 7.36 oz \leq 9.28 oz	0.028	7/16	
> 263	≤ 317	14.5	> 0.58 lb \leq 0.70 lb > 9.28 oz \leq 11.20 oz	0.032	1/2	
> 317	≤ 381	16.3	> 0.70 lb \leq 0.84 lb > 11.20 oz \leq 13.44 oz	0.036	9/16	
> 381	≤ 426	18.1	> 0.84 lb \leq 0.94 lb > 13.44 oz \leq 15.04 oz	0.040	5/8	
> 426	≤ 48 9	19.9	> 0.94 lb \leq 1.08 lb > 15.04 oz \leq 17.28 oz	0.044	11/16	
> 489	≤571	21.7	> 1.08 lb \le 1.26 lb	0.048	3⁄4	
> 571	\leq 635	23.5	> 1.26 lb \le 1.40 lb	0.052	13/16	
> 635	\leq 698	25.4	$>$ 1.40 lb \leq 1.54 lb	0.056	7/8	
> 698	≤ 771	27.2	> 1.54 lb \le 1.70 lb	0.060	15/16	

Table 2-5.Maximum Allowable Variations (MAVs) for Packages Labeled by Weighta(Use Table 2-9 for meat and poultry products subject to USDA requirements)

^a Applies only to shortages in package weight (that is, the MAV is compared with minus package errors only) b > means "greater than"

 \leq means "less than or equal to"

See Category A, Step 5a for polyethylene and Table 2-10

SI Units				
Labeled	d Weight	MAV		
C	m (g) or am (kg)	gram (g)		
> 771	\leq 852	29.0		
> 852	\leq 970	31.7		
> 970	≤ 1.12	35.3		
> 1.12	≤ 1.25	39.0		
> 1.25	\leq 1.45	42.6		
> 1.45	\leq 1.76	49.0		
> 1.76	\leq 2.13	54.0		
> 2.13	\leq 2.63	63.0		
> 2.63	\leq 3.08	68.0		
> 3.08	\leq 3.58	77.0		
> 3.58	\leq 4.26	86.0		
> 4.26	\leq 5.30	99.0		
> 5.30	\leq 6.48	113		
> 6.48	\leq 8.02	127		
> 8.02	\leq 10.52	140		
> 10.52	\leq 14.33	167		
> 14.33	\leq 19.23	199		
> 19.23	\leq 24.67	226		
> 2	4.67	2% of labeled quantity		

Table 2-5. (continued) Maximum Allowable Variations (MAVs) for Packages Labeled by Weight^a(Use Table 2-9 for meat and poultry products subject to USDA requirements)

Inch-Pound Units				
Labeled Weight	MAV			
Pound (lb)	Decimal Pound (lb)	Ounce (oz)		
> 1.70 lb \le 1.88 lb	0.064	1		
$> 1.88 \text{ lb} \leq 2.14 \text{ lb}$	0.070	1 1/8		
$> 2.14 \text{ lb} \leq 2.48 \text{ lb}$	0.078	1 ¼		
$> 2.48 \text{ lb} \leq 2.76 \text{ lb}$	0.086	1 3/8		
$> 2.76 \text{ lb} \leq 3.20 \text{ lb}$	0.094	1 ½		
$> 3.20 \text{ lb} \leq 3.90 \text{ lb}$	0.11	1 ¾		
$> 3.90 \text{ lb} \leq 4.70 \text{ lb}$	0.12	2		
$>4.70~\text{lb} \leq 5.80~\text{lb}$	0.14	2 ¼		
$> 5.80 \text{ lb} \leq 6.80 \text{ lb}$	0.15	2 1⁄2		
$> 6.80 \text{ lb} \leq 7.90 \text{ lb}$	0.17	2 ¾		
$> 7.90 \text{ lb} \leq 9.40 \text{ lb}$	0.19	3		
$> 9.40 \text{ lb} \leq 11.70 \text{ lb}$	0.22	3 ½		
$>$ 11.70 lb \leq 14.30 lb	0.25	4		
$>$ 14.30 lb \leq 17.70 lb	0.28	4 1⁄2		
$>$ 17.70 lb \leq 23.20 lb	0.31	5		
$> 23.20 \text{ lb} \leq 31.60 \text{ lb}$	0.37	6		
$>$ 31.60 lb \leq 42.40 lb	0.44	7		
$>42.40~\text{lb} \leq 54.40~\text{lb}$	0.50	8		
> 54.40 lb	2% of labeled of	quantity		

Table 2-6. Maximum Allowable Variations (MAVs) for Packages Labeled by Liquid or Dry Volume^a

(Use Table 2-9 for meat and poultry products subject to USDA requirements)

	SI Unit	ts	Inch-Pound Units						
Lab Qua (m	ntity	Liquid and Dry MAV (mL)			Quantity ^d oz)	Liquid MAV (fl oz)	Qua	eled ntity ^d ı in)	<u>Dry</u> <u>MAV</u> (cu in)
	≤3	0.5 [°]			\leq 0.50	02 ^b		\leq 0.18	0.03
> 3	≤ 8	1.0 ^c		> 0.50	≤ 0.75	0.06	> 0.18	\leq 0.49	0.06
> 8	≤ 14	1.5 ^c		> 0.75	\leq 2.25	0.13	> 0.49	\leq 0.92	0.09
> 14	≤ 22	1.7		> 2.25	\leq 4.25	0.19	> 0.92	≤ 1.35	0.10
> 22	≤ 66	3.8		> 4.25	\leq 5.75	0.25	> 1.35	\leq 4.06	0.23
> 66	≤ 125	5.6		> 5.75	\leq 7.50	0.31	> 4.06	\leq 7.66	0.34
> 125	≤ 170	7.3		> 7.50	≤ 11.75	0.38	> 7.66	≤ 10.37	0.45
> 170	≤ 221	9.1		> 11.75	≤ 17.00	0.50	> 10.37	\leq 13.53	0.55
> 221	\leq 347	11.2		> 17.00	\leq 21.00	0.63	> 13.53	\leq 21.20	0.68
> 347	\leq 502	14.7		> 21.00	\leq 27.00	0.75	> 21.20	\leq 30.67	0.90
> 502	≤ 621	18.6		> 27.00	\leq 31.00	0.88	> 30.67	\leq 37.89	1.13
> 621	≤ 798	22.1		> 31.00	\leq 39.00	1.00	> 37.89	\leq 48.72	1.35
				> 39.00	\leq 55.00	1.25	> 48.72	\leq 55.94	1.58
				> 55.00	\leq 69.00	1.50	> 55.94	\leq 70.38	1.80
1 pint = 1 1 quart =									

^a Applies to shortages in package volume (that is, minus package errors). ^b It is preferable to convert to SI units and use laboratory glassware.

^c Use laboratory glassware. ^d > means "greater than". \leq means "less than or equal to".

	SI Units			Inch-Pound				
Quantity Dry M		Liquid and Dry MAV (mL)	Labeled Quantity (fl oz)	Liquid MAV (fl oz)	Labeled Quantity (cu in)	Dry MAV (cu in)		
> 798	\leq 916 mL	26.0	> 69.00 ≤ 85.00	1.75	> 70.38 ≤ 99.25	2.25		
> 916 mL	\leq 1.15 L	29	> 85.00 ≤ 103.00	2.0	> 99.25 ≤ 124.5	2.70		
> 1.15 L	≤ 1.62	36	> 103 ≤ 160 (1.25 gal)	2.5	> 124.5 ≤ 153.3	3.1		
> 1.62	\leq 2.04	44	> 160 ≤ 185.6	3.0	> 153.3 ≤ 185.8	3.6		
> 2.04	≤ 2.51	51	> 185.6 ≤ 240	3.5	> 185.8 ≤ 288.7	4.5		
> 2.51	\leq 3.04	59	> 240 ≤ 272	4.0	> 288.7 ≤ 334.9	5.4		
> 3.04	≤ 4.73	73	> 272 ≤ 344	4.5	> 334.9 ≤ 443.1	6.3		
> 4.73	≤ 5.48	88	> 344 ≤ 392	5.0	> 443.1 ≤ 490.8	7.2		
> 5.48	≤ 7.09	103	> 392 < 560	6.0	> 490.8 ≤ 620.8	8.1		
> 7.09	\leq 8.04	118	> 560 ≤ 640 (5 gal)	7.0	> 620.8 ≤ 707.4	9.0		
> 8.04	≤ 10.17	133	> 640 ≤ 800	8.0	> 707.4 ≤ 1010	10.8		
> 10.17	≤ 11.59	147	> 800 ≤ 904	9.0	> 1010 ≤ 1155	12.6		
> 11.59	≤ 16.56	177	> 904	1% of	> 1155 ≤ 1443	14.4		
> 16.56	≤ 18.92	207		Labeled	> 1443 ≤ 1631	16.2		
> 18.92	\leq 23.65	236		Quantity	> 1631	1% of		
> 23.65	\leq 26.73	266				Labeled		
> 26.73		1% of Labeled Quantity				Volume		
	See Category A, Step 5a. for Exception: Bark MulchDry Measure Equivalent: 1 Dry Pint = 33.6003125 cu in 1 Dry Quart = 67.200625 cu in1 Bushel = 2150.42 cu in 1 cu ft = 1728 cu in					cu in		

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

Labeled Count	MAV
\leq 17 ^b	0
$18 - 50^{b}$	1
51 – 83	2
84 – 116	3
117 – 150	4
151 – 200	5
201 – 240	6
241 - 290	7
291 - 345	8
346 - 400	9
401 - 465	10
466 - 540	11
541 - 625	12
626 - 725	13
726 - 815	14
816 - 900	15
901 - 990	16
991 - 1075	17
1076 - 1165	18
1166 - 1250	19
1251 - 1333	20
≥ 1334	1.5% of labeled count rounded off to the nearest whole number

Table 2-7. Maximum Allowable Variations (MAVs) for Packages

Labeled by Count^a

^aApplies only to shortages in package count (that is, minus package errors). ^bSee Category C Sampling Plans for use with these package sizes.

	SI Units					
	Length	Area				
Labeled In Meters	MAV in Percent (%) of the Labeled Length					
\leq ^b 1	3					
over 1 to 43	1.5					
over 43 to 87	2	The MAV for packages labeled by area is 3% of the labeled quantity				
over 87 to 140	2.5	area is 5% of the labeled quantity				
over 140 to 301	3					
over 301 to 1005	4					
over 1005	5					

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

	Inch-Pound Units of I	Measure
l	_ength	Area
Labeled in Yards	LengthLabeled in YardsMAV in Percent (%) of the Labeled Length $\leq b$ 13 $\leq b$ 13ver 1 to 481.5ver 48 to 962ver 96 to 1542.5ver 154 to 3303	
≤ ^b 1	3	
over 1 to 48	1.5	
over 48 to 96	LengthLabeled in YardsMAV in Percent (%) of the Labeled Length $\leq b$ 13over 1 to 481.5over 48 to 962over 96 to 1542.5over 154 to 3303	The MAV for packages labeled by area is 3% of the labeled quantity
over 96 to 154		area is 5% of the labeled quantity
over 154 to 330		
over 330 to 1100	4	
over 1100	5	

^a Applies only to shortages in package measure (that is, minus package errors). ^b \leq means "less than or equal to." See Category A, Step 5a, or Table 2-10 for exceptions: Textiles, Polyethylene Sheeting.

Table 2-9. U.S. Department of Agriculture, Meat and Poultry, Groups and Lower Limits (MAV's) for Individual Packages Also known as Unreasonable Minus Errors - UME's

Definition of Group ar	nd Labeled Quantity	Lower	Limit (MAV)	for		
Homogeneous, Fluid when Filled (e.g., baby food or containers of lard)	All Other Products	Individual Weights - Also known as Unreasonable Minus Errors – UME's (Use the limits according to the scale division being used)				
Less than 85 g (3 oz)	Less than 85 g (3 oz)	10% of	labeled qua	ntity		
		g	oz	Lb		
85 g to 453 g 3 oz to 16 oz (1 lb)		7.1	0.25 8/32 4/16 2/10 2/8 1/4	0.016		
over 453 g over 16 oz (1 lb)	85 g to 198 g 3 oz to 7 oz	14.2	0.50 0.031 16/32 8/16 5/10 4/8 2/4			
	over 198 g to 1.36 kg over 7 oz to 48 oz (3 lb)	28.3	1	0.062		
	over 1.36 kg to 4.53 kg over 48 oz to 160 oz over 3 lb to 10 lb	42.5	1.50 1-16/32 1-8/16 1-5/10 1-4/8 1-2/4	0.094		
	over 4.53 kg over 160 oz (10 lb)	1% of labele	d quantity			

Table 2-10. Exceptions to the Maximum Allowable Variations for Textiles,Polyethylene Sheeting and Film, Mulch and Soil Labeled by Volume, PackagedFirewood, and Packages Labeled by Count with Less than 50 Items

	Maximum Allowable Variations (MAVs)
	Thickness
	When the labeled thickness is 25 μ m (1 mil or 0.001 in) or less, any individual thickness measurement of polyethylene film may be up to 35 % below the labeled thickness.
Polyethylene Sheeting	When the labeled thickness is greater than 25 μ m (1 mil or 0.001 in), individual thickness measurements of polyethylene sheeting may be up to 20 % less than the labeled thickness.
And Film	The average thickness of a single package of polyethylene sheeting may be up to 4 % less than the labeled thickness.
	<u>Weight</u>
	The MAV for individual packages of polyethylene sheeting and film shall be 4 % of the labeled quantity.
	The MAVs are:
	For packages labeled with dimensions of 60 cm (24 in) or more:
Textiles	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.
	The MAVs are:
	For individual packages: 5 % of the labeled volume.
Mulch and Soil Labeled by Volume	For example: One package may exceed the MAV for every 12 packages in the sample (e.g., when the sample size is 12 or less, 1 package may exceed the MAV and when the sample size is 48 packages, 4 packages may exceed the MAV).
Packaged Firewood and Packages Labeled By Count with Less	MAVs are not applied to these packages.
Than 50 Items	

		nts for Packages Labeled by Low en Tolerances (Glass and Stemwa			
	1	2	3		
			For Packages		
Increation Lat Size	Sample Size	For Packages Labeled by	Given Tolerances		
Inspection Lot Size	Sample Size	Low Count (50 or Less)	(Glasses and		
			Stemware)		
		Number of Deckages Allowed	Number of Package		
		Number of Packages Allowed to Contain Less than the	Errors that May		
			Exceed the Allowabl		
		Labeled Count	Difference		
1 – 11	1 – 11	1	0		
12 – 250	12	1	0		
251 – 3 200	24	2	1		
More than 3 200	48	3	2		

Table 3-2. Allowable Differences for Pre	essed and Blown Glass Tumblers and Stemware
Unit of Measure	
If the capacity in metric units is:	Then the allowable difference is:
200 mL or less	± 10 mL
More than 200 mL	± 5 % of the labeled capacity
If the capacity in inch-pound units is:	Then the allowable difference is:
5 fluid ounces or less	± 1/4 fluid ounce
More than 5 fluid ounces	± 5 % of the labeled capacity

PACKAGE INSPECTION REPORTS, INFORMATION ENTRY

There are three Package Inspection Reports (PIR's), one for each category of sampling plans: A, B, or C. Each is identified with the letter designating the Category in the upper left square and on the lower right corner.

- Category A is used for products labeled by weight, measure or a count greater than 50. Most products are in Category A.
- Category B is used for package inspections done at the USDA plant.
- Category C is used for products labeled by a count of 50 or fewer.

The requirements for completing the basic information (heading, responsible party, inspection location, commodity, lot identification, disposition, and off sale information) are the same for categories A and C. Category B only requires the Packer's information since all "B" inspections are done at the packing plant.

- 1. The top line contains:
 - a. The <u>Date</u> and <u>Time</u> the inspection begins.
 - b. The complete name of the <u>County</u> conducting the inspection. S.B. could be Santa Barbara, San Benito, or San Bernardino
 - c. <u>Report or Off Sale Number</u> (optional): Used according to county policy. It is the number used by some jurisdictions to identify the inspection or for tracking off sale commodities.
 - d. <u>Commodity Number</u>: The number used by the State of California to designate the specific classification of the commodity under inspection. The Commodity Classifications List begins on page 17-3. If the commodity is being inspected at the packing location, it is considered to be an audit and the number used is the general classification followed by .50 (e.g., 2.00 is the general classification for Dairy Type Products). The commodity number for an inspection of packages of cottage cheese at the packing plant would be "2.50-Prepackaged Dairy Type Products (Audits)." If this same cottage cheese were to be inspected at the retail market, the classification would be "2.06-Cottage Cheese."
- 2. The next section contains information about the inspection and commodity. The information is used to identify and locate all parties having some control over the commodity. Always enter the complete name and address of all the parties. If at a retail location, it may be necessary to ask for, or to check, invoices to determine the distributor. Note. Category B forms have only a single line and no check boxes as all "B" inspections are done only at the packing plant.
 - a. <u>Packer</u> is the name and address of the party actually placing the commodity into the package. Usually this is the Statement of Responsibility (i.e., the company name and address printed on the label).

- b. <u>Distributor</u> is the party transferring the commodity from the packer to the sales location. It may be the packer if the lot was a direct shipment to the sales location. The dealer's distribution center or warehouse is considered to be the distributor when the packer ships to that location.
- c. <u>Dealer</u> is the party selling the commodity. It may be a wholesale or a retail location.
- d. The check boxes in front of Packer, Distributor, and Dealer are for indicating which one of these parties is responsible for the accuracy of the net contents. Check the box in front of the one that placed the net content statement on the package label.
- e. The boxes following Packer, Distributor, and Dealer indicate at which location the inspection is taking place. Check the appropriate box.
- 3. Commodity information:
 - a. <u>Brand Name</u>: Trademark or the name the commodity is marketed under. For "Blue Seas Chunk Light Tuna," <u>Blue Seas</u> is the brand name.
 - b. <u>Commodity</u>: Identity of the commodity. In the above example, the commodity is "Chunk Light Tuna."
 - c. Other Identification Code Symbols:
 - (1) <u>Date</u>: Any and all dates printed on the label. If there is more than one, record all and identify the type. Types may include pack dates, best used by dates, or sell by dates.
 - (2) <u>Other</u>: Any code or identifying marks on the package designating the part of the production or the location that this commodity is from.
 - d. <u>Container Description</u>: A complete explanation of everything considered to be tare for this commodity (i.e., any part of the whole package and commodity not considered to be the net contents). The description should give enough detail so that someone not familiar with the package could recognize the package and determine what was not included.
 - e. <u>\$ (price per) Package (or) Pound</u>: The price for which this commodity is being sold at this location. Check the box to indicate if this is the package price, or the price per pound for random lots.
- 4. The lower part of the form, following the calculations, contains information about the results of the inspection and the disposition of the commodity.
 - a. <u>Remarks</u>: Any other information, not included elsewhere, concerning the commodity or inspection.
 - b. <u>Off Sale Order</u>: If the lot has been rejected as a result of this inspection, it is ordered "Off Sale" by checking this box.

- c. <u>Disposition</u>: Check the box corresponding to the method of disposal or correction for this lot. This date may be different from the inspection date. If the disposition is not determined, a follow-up visit will be necessary.
- d. Packages . . . :
 - (1) <u>Off Sale</u>: The number of packages rejected as a result of this inspection.
 - (2) <u>Accepted</u>: The number of packages accepted by this inspection.
 - (3) <u>Status not determined</u>: The number of packages whose average error is greater than the SEL, but less than the SEL+MLA. A determination on the lot can not be made without doing further investigation that answers the question "Is the lot shortage due to unavoidable, normal moisture loss in distribution or did the product leave the packer short weight?"
 - (4) <u>Weighed/Measured</u>: The number of packages physically weighed or measured for this inspection. This is the sample size, box [6].
- 5. The last line contains the signature and title of the owner, or agent for the owner, of the lot inspected, and the names of the county sealer and the inspector conducting the inspection.

The signature of the owner/agent certifies that he or she has received a copy of the package inspection report and that the inspector has offered to review the data with him or her. It also signifies his or her understanding of the conditions of the Off Sale order. *Since some signatures are hard to read, have the owner/agent print their name below also.*

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	Date	Time	<u> </u>	TAUNAUL	COUNT		· · · · · · ·	Report # or Off Sale	Order# Co	ommodity N
A 6	110/03	3:05	a.m.	Go	LDEN					3.01
CHECK PARTY RESP	ONSIBLE FOR NET (CONTENTS				e				INSPECT
Packer PER	RIN BAL	LERY	1608 S.	INDUSTR	AL PARK	WAY. R	CKWOOD.	OR 86	-095	
Distributor	ENTINO	hlunies	Addr	ess Xery		BUITES		5994		
Dealer		ZKET	Addr	ess A	VE.	ELMIRA		13069		
Brand Name			Othe	r Identification / Da	te	0	hor	,		
Commodity_	ERIN			Symbols Container Description		CLIP 100				
JRIST		BREAD	[2] Device	CELLO	WRAP 5] Inspection		PLASTIC :	7] Tare Sample	STIC C	CUP
^{\$} 2.29 🗄	Package Group	MLA 🗹 /	% Division		Lot Size	8	Size 8		7 Minus	Allowed
[1] Labeled Content or Random Average Weight (R				Se Harles Sector	[14] Nominal Gr	oss (E) P		[3] MAV	[4A] MLA	[4B] Adjus
Andom Average Weight (R	(A) [A] Gross Weight	(B) Tare Weigh	t [C] Net Weigi [A] - [B]	nt [D] Error [initia tare sample]		+[13] Stand Random	ckage Error ard [A] - [14] [A] - [13] - [1]	from Table	0.01 X Labeled Content	t MAV [
10/4 02		e de la companya de la		[]. [].	308.	5 Minus (*.)	Plus (+)	15	3	18
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2.	304	9				4.5				
3.	315						6.5			1
4.	296					12.5			· · · · · · · · · · · · · · · · · · ·	
5.							•			
6.	298					10.5		· .		+
	300					8.5				
7.	314						5.5			
8.	306					2.5	14.4			
9.		· · ·			Б.					
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12.										
	Tat-I -4 T				Error: T	atal for	· · · ·			The Second
Total	Total of Tan Weight	S		station of the	Each C	Column 40	12		10031-0	
[9] Rc - Range of [10 Errors [D]	D) Rt Range of [11 Tare Weights (B)	Ratio of Rc / Rt [9] / [10]	Tare (Table 2 – 3)	Tare Weight	5] Total Error	of UME's	Is [16] greater than [8]? S: REJECT	[18] Average Error ([15] / [6])	VES	18] Zero or P ACCEPT LOT
NA	NA	NA	2	8.5	- 28	~	Continue	- 3.5	-	Go to [21]
[21] Computed Standard D of Sample Errors	Deviation [22] Sample	Correction Factor e 2 - 1, Col. 3)	[23] Sample En [21]	ror Limit (SEL) x [22]	[24]	AVERAGE ERROR [1	8] IS MINUS (Use th	e absolute value of [1	18] for these deter	rminations)
6.9897		836		8434	MLA	Moisture Loss A	llowance is greater th	han 0% _ L.C	2_%	
Average Error [18] /			x 100 =		6 Error Is 3	.5 [18] less tha	n or equal to 5.8	43 [23]	IF YES, ACCER	рт [
wateriage mutor [10] /	300	× = 0.01		. 1.16	6 EIIUI		ler than	[23] + [4A]	IF YES, REJEC	
25		= 0,011	💌 X 100 =		% is					
3.5								[23]		
<u>3.5</u> /		x Price Per Pac	kage [*] =	Total \$ Value	ls	[18] grea	ter than	[23]		
		x Price Per Pac x <u>Z 29</u>	kage* = =		ls	[18] grea			IF YES, COMMO	Y AREA,
		x <u>2.29</u>	=	Total \$ Value \$ 0.21	ls	[18] grea	ter than			Y AREA,
	Lot Size [5]	x <u>2.29</u>	=	Total \$ Value \$ 0.21		[18] grea AND less the	ter than	[23] + [4A]	IS IN THE GRE	Y AREA, DETERMIN
☆ × <u> 0.0116</u> × * IF PRICED PER PC	Lot Size [5]	x <u>2.29</u>	=	Total \$ Value \$ 0.21		AND less the R No Moisture I	ter than	[23] + [4A]	IS IN THE GRE STATUS NOT D	Y AREA, DETERMINI quals 0%
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☆ × <u> 0.0116</u> × * IF PRICED PER PC	Lot Size [5]	x <u>2.29</u>	=	Total \$ Value \$ 0.21		[18] grea AND less tha No Moisture I [18] kess tha	ter than	[23] + [4A]	IS IN THE GRE STATUS NOT D	Y AREA, DETERMIN quals 0% CEPT
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				PACKAGE INS		PORT				
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(Dealing			Address	FIETH A	VE,	ELMIN	A CA	9306	9	
Distributor			Address		····		.,			
Dealer			Address							
Brand Name BIG	Tep			ntification / Date	4-11-03					
Commodity Dour	ID STEL	1	Conta	iner Description						
\$ - co	Package Group	MIA 🗖 .	% [2] Device	[5] Insi	pection	[6]	Sample	[7] Tare Sample	[8] (Unreasonable
the second second second second	Pound	Other 🗳	Division U		17		1			Minus Errors C UME) Allowed
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KA 2,42 U	B	Tel Lare walker	(A) - [B]	[C] - [1]						
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ъ́т х		x Price Per Packa	ge* =	Total \$ Value	ls	[18] greate	r than	[23]		
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		ER POUND X LABE	ELED CONTENTS		OTHER I	No Moisture Lo	ss Allowance Ol	R Moisture		
* IF PRICED PER PO		ER POUND X LABE	ELED CONTENTS	······	-1	-			Loss Allowan	ce equals 0%
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CATEGORY	Date 6 / 10 / 03	Time 11:20	em.		FOLT	COUNTY	-	-	·	Report # or Off Sale	e Order #	1	dity Number • 04
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Packer	WN EAST	-	C Addre	988 ~	BRTE	RVILLE	Ja	ER MAN	TA	1510			
Distributor	ACO FOODS		ola W		5	LVD	,	TRO	CA	95001	,		
Dealer			Addre	ess		,		MIRA	CA	9306			- 1
Brand Name		<u>KEI</u>	Other	Identification /	Data	A1G- 12-04		Other	Ch	7300	<u> </u>		
Service dit -	DNT SHAR	D CHEDT		Symbols ontainer Descripti	0.0		VACU	Code	PAC				
		MLA D/	[2] Device		[5] Inspe	ction		161 Sample	10	7] Tare Sample] Unreasona	
	Package Group Pound	Other DE	Division	0.01 LB			8	Size /				Minus Error (UME) Allow	ved U
1] Labeled Content or Random Average Weight	(RA)		[C] Net Weight	D Error (Ir tare samp	nitial [14]	Nominal Gross Weight [1] + [13]	je Str	Package Em andard [A] - [1 Iom [A] - [13]	f)	[3] MAV from Table	[4A] MLA 0	X [``	Adjusted MAV [3] + [4A]
RA 1.60 LB	[A] Gross Weight	[B] Tare Weight	(A) - [B]	[C] - [1]	10)		Rand Minus (+		- [1] JS (+)		Labeled	Content	
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1.71	1,66	0,02	1.64	- 0.0			0.07	-	<u> </u>	0.064			
1.55	1.58	0,02		- 0.0		<u></u>	P	0.	~	0.067			
	1,73	۰.	· · · · · · · · · · · · · · · · · · ·							· · · ·	`		
1.68									03		•		
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1.57	1.63				Constant Transition				04				
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1.61	1.65					From Tabel for			02				
Total 19.31	Total of Tare Weights	3			[15] Total E	Error: Total for Each Column	0.18		19				
9] Rc - Range of Errors [D]	10] Rt Range of [11] Tare Weights [B]	Ratio of Rc / Rt [1 [9] / [10]	Tare (Table 2 – 3)	Tare Weight			of UME's	17] is [16] great YES: REJECT	er man toj r	[18] Average Error ([15] / [6])		[20] Is [18] Zer YES: ACCEF	
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21] Computed Standard of Sample Errors	Deviation [22] Sample (Table	Correction Factor 2 - 1, Col. 3)	[23] Sample Erro [21] x			[24] AVER	AGE ERROR	[18] IS MIN	US (Use the	e absolute value of [18] for thes	e determinat	ions)
						MLA 🗆	Moisture Los:	s Allowance i	s greater th	an 0%	%		
Average Error [18]	/ Labeled Content [1]	= \$	x 100 =		% Error	ls	_ [18] less f	han or equal	to	[23]	IF YES,	ACCEPT	
/		=	x 100 =			ls	(18) gr	eater than		[23] + [4A]	IF YES,	REJECT	
ф х	Lot Size [5]	Price Per Packa	ge* = .	Total \$ Value	θ	ls	(18) gr	eater than		[23]			
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	SE PACKAGES				E	DISPOSITIO	N: Date:	1	/	Packages Off S	ale:		d
V UND	ER PROVISION	IS OF DIVIS	ION 5, SEC	TION 1221	1 OF		d Released	Destr	oved D	(rejected)		2	<u>-8</u>
THE	CALIFORNIA E	USINESS A	ND PROFE	SSIONS C	ODE.	Shipped to:			,	Packages Acce	pted:	_	0
	OT MOVE, TR					On _	<u>e 11</u>	103		Packages Statu	is Not Dete	ermined	0
DISP	OSE OF WITH		EN AUTHO	RIZATION		Disposition N	lot determined			Packages Weig	hed / Meas	sured	12
I HAVE RECEIVED	COPY OF THIS REPO	RT AND HAVE BEI	EN GIVEN THE O	PPORTUNITY TO	REVIEW	THE DATA.	*		-				
			SI M	29		SERCE	L			INSPECTOR	1.	-+	
			RU 11/1	1011			un car	- all	~		VII-	. II .	

				PACKAGE INSI		PORT				
CATEGORY	Date	Time	a.m		COUNTY			Report # or Off Sale	e Order # Co	ommodity Number
	10-03	7:05	p.m.	GOLD	en	· · ·	·			4.12
CHECK PARTY RESPON	~	-	P8654					GF.	,	INSPECTED AT
V CRAN Distributor		ARMS	Address			GLOST				
Dealer	MILTON'S	FINE FOO	Address			EASTWO				
Brand Name	OP MAR	LET		tification / Date		Othe	MIRA,	CA 93	069	r
WEST K		RMS	Code Syn	iner Description	511 By 06	-22-03 Cod	0			
KHOLE E			1.1.1	PLASTIC.		IGTAL CI		A KER	101	asonable
^{\$} 1.99 Br Po	ockage Group ound	Other 3	% [2] Device Division O	屿	Size 3	1	Size 12	Size (Initial)	2 Minus (UME	Allowed
[1] Labeled Content or Random Average Weight (RA) RA 2.523 LB	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [6]	[D] Error (initial tare sample) [C] - [1]	4] Nominal Gross Weight [1] + [13]	(E) Pac Standar Random (Minus (+)	kage Error d [A] - [14] A] - [13] - [1] Plus (+)	[3] MAV from Table	[4A] MLA 0.03 X Labeled Conten 0.07569	
1 2.54	2.702	0,220	2.482	-0.058		0.042				
^{2.} 2.48	2.574	0,166	2.408	- 0,072		0.110				
^{3.} Z. 3Z	2.404	Q 182				0.120			-	· .
4 2.45	2.582	0,234				0.072				
^{5.} 2.61	2.766	0,194				0.048				
^{6.} 2,58	2.702	0,172				0,082				
7. 2.36	2.514	0,256				0.050				
^{8.} 2.48	2.568	0,136				0.116				
⁹ 2.24	2,394	0,224						4	7	A 120
10						0.050		0.062	0.067	0,129
11. 2,44	2.568	0.184				0.076				
0.09	3.304	0.272		1.			0.010			
2.67	2.776 Total of Tare	0.208			Error: Total for	0.118	· · · · · · · · · · · · · · · · · · ·			OL .
30.28	Weights	2.448	Total Number [13]	Average [15] Total	Each Column	0.884	0.0 (0 [16] greater than [8]?	[18] Average Error	[20] is (18] Zero or Plus?
	1	1		Tare Weight			REJECT	[18] Average Error ([15] / [6])	YES:	ACCEPT LOT
		,259		'	0,874	•	Continue	-0,07		Go to [21] 🖬
[21] Computed Standard Devia of Sample Errors	ition [22] Sample (Table	Correction Factor 2 – 1, Col. 3)	[23] Sample Error Lir [21] × [22]					e absolute value of ['		rminations)
0.03939	0.	635	0.07	150	MLA 12	Moisture Loss Allo	owance is greater th	an 0% <u>3.</u>	2 %	
Average Error [18] / Lat			x 100 =	% Erro	is	_ [18] less than	or equal to	[23]	IF YES, ACCE	
0.0728 1	2.523	= <u>0.028</u>	<u>}</u> x 100 =	2.88 %	ls	_ [18] greate	r than	[23] + [4A]	IF YES, REJE	ст 🗖
🖈 x	Lot Size [5] x	Price Per Packag	e* =	Total \$ Value	150+0728	[18] greate	r than 6.025	0 [23]		
0.0288 x	31 x	1,99×2	523= \$.	4.49		AND less than	or equal to 915	Q6 [23] + [4A]	IF YES, COMM IS IN THE GRE	
* IF PRICED PER POUN	ID: USE PRICE PE	R POUND X LABE	LED CONTENTS						STATUS NOT E	
REMARKS:						No Moisture Lo	ss Allowance OF	R 🔲 Moisture l	.oss Allowance e	quals 0%
					-	_	or equal to	_	IF YES, ACC	· _
						[18] greate	•	[23]	IF YES, REJ	
			ORDERED		DISPOSITIO	N: Date:	11	Packages Off S (rejected)	ale:	0
				ON 12211 OF SIONS CODE.	Corrected an	d Released 🛛	Destroyed	Packages Acce	ntodu	0
					Shipped to: I	Packer	Distributor		is Not Determined	31
			OMMINGLE		On Disposition N	ot determined			hed / Measured	12
I HAVE RECEIVED A COR OWNER OR AGENT	TUP THIS REPU	TITLE	IN GIVEN THE UPPO	UNIT TO REVIE	SEALER	······		INSPECTOR		
-										
49-003 (Rev. 5/03)	D	EPARTMENT	OF FOOD AN	DAGRICULTUR	E - DIVISIO	N OF MEASU	JREMENT ST	ANDARDS		Α

EXAMPLE PRIOR TO CHANGE- USED DRY TARE FOR MEAT & POULTRY NOW!

8-59 Rev. 11/09

	Date		Time	(a.m.)	PACKAGE	-	COUNTY	PURI			Report # or Off Sa	le Order # Co	mmodity Nu	
¥	13/		8:10	p.m.	SAN	P	ABLO						5.10	
Packer			****	Add	ress					1 1	Rul		INSPECTE	ED /
Distributor	FIELD	IN	DUSTRI	55 LTD.							8412		· · · · · · · · · · · · · · ·	╇
Distributor Sc Dealer	MART	г D	IST.	-	18642 ress	Ô.	D ROCK	ILLE	RD,	ALG	oso, C	4 9ZZ	16	\downarrow
													A16 - A	
	FIEL	D		Cod	er Identification / Da e Symbols Co	de			Other Code	2-86	4-CDA	1		
mmodity CIDI	ER V	NEG	AR	· · · · ·	Container Description	GU	ASS BOT	īΕ,	META	L Sel	REN TOP	1		
1.89	Package Pound	Group N		% [2] Device Divisio	12 (0.5)] Inspe Lot S		0	[6] Samp Size	12	[7] Tare Sample Size (Initial) ∧	[8] Unrea Minus	Erroro	~
Labeled Content or	Pound			- F	LUID DRAM	[14]	Nominal Gross		1 Packana			(UME)	Allowed (4B) Adjuste	C ted
18 FL OZ		ss Weight	[B] Tare Weigh	t [C] Net Weig [A] - [B]	ht [D] Error [Initia tare sample]		Weight [1] + [13]	Si Ran	E) Package landard [A] dom [A] [- [14] 3] [1]	(3) MAV from Table (3) O:63 floz	0X Labeled Content	MAV [3]	
530 mL				- PA - IPA	(C)-(1)	19		Minus (-		Plus (+)	5.04 fldr		_	
								1						
					· .			1						
·						-		0.5						
				· · · · · ·				1		· ,		· · · ·		
-s. (-	<u> </u>		-				<u>'</u> ,						_
	-				2.42.20				_					_
	· .				-			0.5						
						AL AL		1,5						
n na								0.5						
								0.5	•					
		1.1								0				
				1				0.5	•				-	
								1						
al	Tot	al of Tare			11 4	(L.) (4.)	Error: Total for	9		<u>^</u>				-
tc - Range of [1 mors [D]	0] Rt Range of Tare Weights	Weights [11] F	Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 - 3)	[13] Average [15] Tare Weight	Total E	Each Column fror [16		17] is (16) g	reater than [8]?	[18] Average Error ([15] / [6])	[20] is [1	8] Zero or Plu	JS?
						- 9			YES: REJE NO: Cont	= 1	-0.75	YES: A	CCEPTLOT oto [21]	ן ן
Computed Standard I of Sample Errors	Deviation [22]	Sample C	orrection Factor	[23] Sample Er [21]	ror Limit (SEL)		[24] AVERA	GE ERROR	[18] IS M	INUS (Use th	e absolute value of [2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
			35		532			Moisture Los	s Allowand	e is greater th	nan 0%	%		
0.3988 erage Error [18] /	and a second second		1	x 100 =		Error				ual to		IF YES, ACCEP	T C	٦
0.0937 /	. /	••		x 100 -		Enor	ls	- • •	reater than			IF YES, REJEC	_	
						70			reater than		[23] + [47]			1
tar x	Lot Size		Price Per Paci	kage* =	Total \$ Value		···			ual to				٦
.0052 x				=	\$ 2.36	-	-	AND 1655		udi (U	[23] + [4A]	IF YES, COMMO IS IN THE GREY	AREA,	_
IF PRICED PER P	DUND: USE	PRICE PEF	R POUND X LA	BELED CONTENT	S							STATUS NOT D		IJ.
MARKS: 8 FLI	UD D	R (DP	AM) =	1 FLW	D OUNCE			No Moistu	re Loss All	owance OF	R Moisture	Loss Allowance eq	uals 0%	
AV = ON	63-fi		= 5.0	4 fl di	(ls	_ [18] less			[23]	IF YES, ACC		٦
AVERAGE	ERROR	=_0.7	75 FL C	ir = 0.0	937 fl	0Z	Is 0.75					IF YES, REJE	_	-
								_ ('*) 9			[ev]	1 1 CO, REJE		-
THES	E PACK	AGESH	AVE BEI		ED OFF SALE		DISPOSITION	I: Date: _	212	3103	Packages Off S	Sale:	مرا <u>ب</u> م	Ļ
UNDE	R PROV	ISIONS	S OF DIVI	SION 5, SE	CTION 12211	OF	Corrected and	Released	De De	stroyed 🔲	(rejected)		240	ر
THE	ALIFOR	INIA BL	SINESS	AND PROFE	ESSIONS COL	JE.	Shipped to: P			tributor	Packages Acce	epted:		
				, COMMING				123			Packages Statu	us Not Determined		
DISPO	DSE OF	WITHO	UT WRIT	TEN AUTHO	ORIZATION.		Disposition No	ot determine	₀ □		Packages Weig	hed / Measured	12	
AVE RECEIVED A	COPY OF TH	IS REPOR	T AND HAVE E	EEN GIVEN THE	OPPORTUNITY TO R	EVIEW	THE DATA.		~		l			
NER OR AGENT	T	C.	TITLE	D.A			SEALER	10	\hat{D}		INSPECTOR	Alm.	6	

			F	ACKAGE INSP	ECTION RE	PORT					
CATEGORY A	Date	Time	a.m.		COUNTY	١		Report # or Off Sale	Order # C	ommodity Num	nber
	12-03	10:10	p.m.	0113	SION		· · · · · · · · · · · · · · · · · · ·	a an		9.0Z	
CHECK PARTY RESPO		1	Address	1	N	1	Render	DIT P	905		
Distributor	REEK	/INGYAR	Address		DEALLX	LANE	/	DGE, CA		101	-
Dealer /	C SPIRI		Address		, '		DEIADE	1	5962		V
Brand Name	CAL D	PIRITS	Other Iden	tification / Date	VISTA		WTA Ju		90	112	
	REEK		Code Sym	her Description	INTAGE			- BA -612			
			2 [2] Device	ner Description LASS Bottl [5] Insp	ection For L	GUERE	Sample	AL CORI		asonable	
18.99 🗄	Package Group	Other 14		Im L Lot		/ i	Size 12	Size (Initial)	Minu		9
 Labeled Content or tandom Average Weight (RA) 			(C) Net Weight	[D] Error [initial	Nominal Gross Weight [1] + [13]	IEI R Stand	аскаде Елгог lard: [A] – [14] 1. [A] – [13] – [1]	[3] MAV [4 from Table	A] MLA 0. 0025 x	[4B] Adjusted MAV [3] -	
750 mL	(A) Gross Weight	[B] Tare Weight	(A) • (B)	tare sample] [C] - [1]		Random Minus (-)		22	Labeled Conter	23.8	
							1100(11)		1:013		/3
•			·			4					
				·····		2					
										_	
		+					0				
•			· .			5					
						2					
						4			<u>, , ,</u>		
						3					
						4					
0.		· · · ·					0				
1.						4	ń				
2.					•.	3					
otal	Total of Tare Weights	8			Error: Total for Each Column	35					
P] Rc - Range of [10] R Errors [D] Ta	Rt Range of [11] are Weights [B]	Ratio of Rc / Rt [12 [9] / [10]	2] Total Number [13] A Tare (Table 2 – 3) T	verage [15] Total are Weight	Error [10	of UME's	Is [16] greater than [8]? S: REJECT	[18] Average Error ([15] / [6])		18] Zero or Plus?	_
				- :	35): Continue	- 2.91		ACCEPT LOT Go to [21]	ī
21] Computed Standard Dev of Sample Errors	iation [22] Sample (Table	Correction Factor 2 - 1, Col. 3)	[23] Sample Error Lim [21] x [22]	it (SEL)	[24] AVER/	AGE ERROR [1	8] IS MINUS (Use th	e absolute value of [18] for these dete	rminations)	
1,6213	3 0	635	1.029	75	MLA LE	, Moisture Loss A	llowance is greater t	han 0% 1/4	%		
Average Error [18] / La	abeled Content [1]	= 🎝	x 100 =	% Error	ls		n or equal to		IF YES, ACCE	рт 🗖	
2.916	750	= 0.0038	x 100 = _	5.38 %	Is 2.9/6	[18] great	ter than 2.90	4 [23] + [4A]	IF YES, REJE	ा 🗗	/
ъ́х х	Lot Size [5]	Price Per Packag	e* =	Total \$ Value	ls	_ [18] great	ter than	[23]			
6.0038 x	24	18.99		1.77		AND less that	in or equal to		F YES, COMM		
* IF PRICED PER POU	ND: USE PRICE PI		- •-						IS IN THE GRE		
REMARKS:				· · · · · · · · · · · · · · · · · · ·		-					
A MOISTURE		/			OTHER L	No Moisture L	oss Allowance Ol	R 🛄 Moisture Lo	ss Allowance e	quals 0%	
14 % OF	WINE IN	BOTILE A	FTER 10	MONTHS	- Is	_ [18] less that	n or equal to	[23]	IF YES, ACC		
					- Is	_ [18] great	ler than	[23]	IF YES, REJ	ЕСТ 🗖	
	PACKAGES		ORDERED		DISPOSITIO	N: Date:	1 . 1	Packages Off Sal	A:	,	
			ON 5, SECTION		Corrected and		Destroyed	(rejected)	0.	24	_
THE CA	LIFORNIA B	USINESS A	ND PROFESS	IONS CODE.	Shipped to: F	_		Packages Accept	ed:	0	_
			OMMINGLE		On	//		Packages Status	Not Determined		<u>.</u>
DISPOS	SE OF WITH	OUT WRITTI	EN AUTHORIZ	LATION.	Disposition N	ot determined	Ľ	Packages Weight	ed / Measured	12	-
HAVE RECEIVED A CO	PY OF THIS REPO	RT AND HAVE BEE	N GIVEN THE OPPO	RTUNITY TO REVIEW	THE DATA.		·				
WNER OR AGENT	1	TITLE			SEALER		All	INSPECTOR	/	1/2	
49-003 (Rev. 5/03)	most -		OF FOOD AND	AGRICULTUR		NOF MEN	I REMENT OT	ANDARDS	u U	you	_
			C. 1000 AND			OF WILAG					~

ATEGORY		·			PACKAG	INSP	COUNTY	PORT			PAGE	10		Z	
ATEGORY	Date	3	Time 10:25	(in)	G	RSO				-	Report # or Off	Sale Order #		modity Numt)er
IECK PARTY F	RESPONSIBLE FC			p.m.						·				INSPECTED	AT
Packer	IG LEE	1818	RAFFL	ES BLI	iress S	NGA	PORE	1185	9-0	100		-			
	(IMPORTER		7850	KAHAL	AKUA E	SLUD	, Ho	NOLU		HA	994	44			
Dealer A.	L. WONG	Foot	5	684 Å	tress AU	Е.	Los Ro			,	480				V
nd Name	GHT FI	ow	ER	Oth	er Identification /	Date Code			Other Code	SFC 8	59-06	88			_
and a state of		OIL			Container Description	d K	ELTANG	MAR	M	ETAL C					
12.99	Package Pound	Group		% [2] Device Division	on 0.00 Z	[5] Inspe Lot S	ction		[6] Sa	ample ize 24	7] Tare Sample Size (Initial)	2] Unrease Minus E	rrors	,
abeled Content o	ar III				LB	[14]	Nominal Gross				[3] MAV	[4A] MLA	(UME) A	[4B] Adjusted	
dom Average Wei GAL (1.	BL) [A] Gros	s Weight	(B) Tare Weight	[C] Net Wel [A] - [E	ght [D] Error [in tare sampl [C] - [1]	9]	Weight [1] + [13]			age Error [A] - [14] J - [13] - [1]	from Table	-	X Content	MAV [3] +	[4A]
3.71	LB					1	1.150	Minus (-		Plus (+)	0.08691	В			
		112	0.442	3.67				0.03							
		070	0.438	3.63	2 -0.0	78		0.08	0						_
e e e circie de entre e tradición	4,1		0,438				·			0.042					
-		08	0,442	· · ·				0.04		A A7 C					
		88								0.038					
· · · · ·		238		· · · ·				0.06		0.088					
	4,0	,						0.08		0.000					
	4.0							0.08				-			
		96			6			0.00		0.046					
	4.1	44		-				0.00	.			1			
	4,1	28				-		0.027		·····				<u></u>	
al		al of Tare Weights					Error: Total for Each Column			0.214	TOTAL PA	se l =		, 204	10
Rc - Range of Errors [D]	[10] Rt Range of Tare Weights	[[11]		12) Total Number Tare (Table 2 – 3	[13] Average) Tare Weight	15] Total E	.mor [16	of UME's	17] 16 [1	16] greater than [8]?	[18] Average Er ([15] / [6]	TOP	[20] is [18]	Zero or Plus?	
0.038	0.004	F 1	9.5	4	0.440	- 0	534			REJECT	- 0.0	222	YES: AC NO: Go	CEPTLOT	Ľ V
Computed Stand of Sample Errors	dard Deviation [22]	Sample (Table	Correction Factor 2 - 1, Col. 3)	[23] Sample E [21]	rror Limit (SEL) x [22]		[24] AVER/	AGE ERROR	l [18]	SMINUS (Use the	absolute value	of [18] for thes	e determ	inations)	
0.048	17	0.4	422	0.0	z05			Moisture Los	s Allov	wance is greater th	an 0%	%			
erage Error [18	3] / Labeled Con	tent [1]	= \$	x 100	=	% Error	ls	[18] less	than o	r equal to	[23]	IF YES,	ACCEPT		
0.0222	1 3.71		= <u>0.0059</u>	8 x 100	= <u>0,59</u>	~ %	ls	(18) gr	reater	than	[23] + [4A] IF YES,	REJECT		
ង	x Lot Size	[5] x	Price Per Packa	age* =	Total \$ Value		ls		reater		[23]				
.00598	× 87	2 ×	12.99	7 =	\$ 67,6	Z		AND less	than c	or equal to	[23] + [4A	IS IN TH	E GREY /	AREA,	
IF PRICED PE	R POUND: USE I	PRICE PE	R POUND X LAB	ELED CONTEN	rs			-		-		STATUS	NOT DE	TERMINED.	
EMARKS:	GAL DI	- =	3.71	LB				No Moistur	re Los	s Allowance OF	Moistu	re Loss Allow	ance equ	als 0%	
MAN FR	M TABEL	= 1.5	5 fl 02	= 0.0	869 LB		. Is	_ [18] less i	than o	r equal to	[23]	IF YE	S, ACCE	рт 🔲	
					· · · · · · · · · · · · · · · · · · ·		Is 0. 022	2. [18] gr	reater	than 0,020;	5 [23]	IF YE	S, REJE	л 🖬	-
1										10 03			_		
					ED OFF SAL CTION 1221		Corrected and		_	10 / 03 Destroyed	Packages O (rejected	n Sale:)		870	-
					ESSIONS CO		Shipped to: F			Distributor	Packages A	cepted:		0	-
	NOT MOV						On	6 20	70	3	Packages S	atus Not Dete	ermined	0	-
DIS	SPOSE OF	WITH	JUT WRITT	EN AUTH	ORIZATION	\ <u></u>	Disposition N	ot determine	d 🗆]	Packages W	eighed / Mea	sured	24	-
AVE RECEIVE	COPY OF TH	IS REPO	RT AND HAVE BE	EN GIVEN THE	OPPORTUNITY TO	REVIEW	THE DATA.			-	INSPECTOR		,		_
HL /	lowa			DUNOS			C	erla (G	s lotto	RA	Sal	24.4		
<u> </u>	3)	D	EPARTMEN	T OF FOOD	AND AGRICU	LTURE	- DIVISIO	N OF ME	ASU	REMENT ST	ANDARDS	yon			A
-003 (Rev. 5/0															
-003 (Rev. 5/0	, / .														

CATEGO	DV I	Date		Time			PACKAG	e insp	ECTION RE COUNTY	PORT		Report # or Off S		
A		5/03	3	10:25	a.m.)		CAR	SON			Report # of on c		5.03
CHECK P/	ARTY RESPON	SIBLE FOR			pana	. <u></u>		•						INSPECT
Pack	WING	LE	E			Address								
Distr	ibutor					Address								
Deal	er A. L.	WON	G			Address				·				
Brand Name	NIGH	τ fi	OW	GR		Other Ide Code Syr		Date Code			Other Code 6FC	859-	0688	
Commodity	PEANL		010		-		ainer Descripti	on						
5		ackage	Group	MLA	% [2]	Device Division	.002	[5] Inspe Lot S		0	[6] Sample Size	[7] Tare Sample Size (Initial)		Unreasonable Minus Errors
1] Labeled C	1 1 A 1 A 1					TUNK			Nominal Gross	Ţ	Package Error	[3] MAV from Table	[4A] MLA 0.	UME) Allowed
3.7		[A] Gross	Weight	[B] Tare Weig	ht [C]	Net Weight [A] - [B]	[D] Error (in tare samp [C] + [1]	a	Weight [1]+[13] 4, 150		Package Error andard (A) - [14] tom (A) - [13] - [1]		Labeled C	_ X MAV [3 Content
1.						KAL MARK			7,100	Minus (-) Plus (+)			
2.		4.1								0,03		-		
3.		4.0	70			<u> </u>		<u></u>		0.08				
4.		4.0	88							0.06				
5.			94							0.05				
5. 6.		4,1	78					s in the			0.028			
7.		4.1	54						· · · · · · · · · · · · · · · · · · ·		0.004			
B.		4.1	34							0.01	6			
		4.10	ble								0.016			
9.	ç	4.0	64							0.08				
10.		4.1	58						1915 - 179 - 1915 - 1967 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 - 1916 -	0.04	2			
11.		4,15	58							6	0.008			
12.		4,14	1							0.000	•			
Total	ورور ورور ورور ورور ورور و		of Tare Weights						Error: Total for Each Column	0.38	6 0.056	TOTAL PA	Card Street Contraction of the	TOR CONTRACTOR STORES
9] Rc - Rang Errors [D]	e of [10] R Ta	t Range of re Weights [5	1]	Ratio of Rc / Rt [9] / [10]	[12] Total N Tare (Ta	lumber [13] ble 2 - 3)	Average Tare Weight	[15] Total E	imor [[1	of UME's	17] Is [16] greater than [8]? YES: REJECT 🛛 🔲	[18] Average En ([15] / [6])	20] is (18) Zero or Piu YES: ACCEPT LOT
					-						NO: Continue			NO: Go to [21]
[21] Comput of Samp	ed Standard Devia le Errors	ation [22]	Sample ((Table	Correction Factor 2 – 1, Col. 3)	[23] \$	ample Error Li [21] x [22]	mit (SEL)		[24] AVER	AGE ERROR	[18] IS MINUS (Use the	e absolute value o	f [18] for these	determinations)
									MLA 🗆	Moisture Los	s Allowance is greater t	nan 0%		
Average E	mor [18] / La	beled Conte	ent (1)	= क्र	x	100 =		% Error	ls	_ [18] less	than or equal to	[23]	IF YES, A	CCEPT
	/			=	<u> </u>	100 =		%	ls	[18] g	eater than	[23] + [4A]	IF YES, F	REJECT
\$	x	Lot Size [5] x	Price Per Pac	kage*	=	Total \$ Valu	8	ls	_ (18) g	eater than	[23]		
	X	-	x		<u>.</u>	= \$			1	AND less	than or equal to	[23] + [4A]	IF YES, CO IS IN THE	OMMODITY CREY AREA,
* IF PRIC	ED PER POUN	ID: USE P	RICE PE	R POUND X LA	BELED CO	ONTENTS			1					OT DETERMINE
REMARK	3:									No Moistu	e Loss Allowance O	R 🗍 Maistur	e Loss Allowar	nce equals 0%
										_	than or equal to			, ACCEPT
						· · · · · · · · · · · · · · · · · · ·			- IS		eater than	[23] [23]		
									¹³	_ (18) g		[20]	IF TES	
, , ,	THESE	РАСКА	GES	HAVE BE	EN OR	DERED	OFF SAL	E	DISPOSITIO	N: Date:	//	Packages Of	f Sale:	N
				S OF DIV					Corrected an	d Released	Destroyed	(rejected)		.5 +
								UDE.	Shipped to:		Distributor	Packages Ac	シックト	Kr
				NSPORT					On		_/	-	atus Notebeten	
	2.01.00								Disposition N	iot determine		Packages W	eighed / Measu	
I HAVE RE	CEIVED A CO	PY OF THIS	REPOR	RT AND HAVE	BEEN GIVE	N THE OPP	ORTUNITY TO	REVIEW	THE DATA					

		an a		1	PACKAGE IN	SPECTION RE	PORT				
CATEGORY		Date	Time	a.m.	,	COUNTY			Report # or Off Sal		ommodity Number
	61	22/03	4:10	p.m.)	K	LAMATI	-		· · · · · · · · · · · · · · · · · · ·	1	2,02
CHECK PARTY	RESPON	SIBLE FOR NET C	ONTENTS	Address	· · · · · · · · · · · · · · · · · · ·						INSPECTED AT
V 7	TAN	FOUNDA	24		N. MEADO	WVIEW R	D, PAR	KFIELD	RO, L	17. 60	101
Distributor	СТ	RADING		Address		SMITH	VILLE	NV	8940	2	
	RBE	ET HART	WARE		MAIN SI	<i>K</i>	LIEST .	CA 9	9116		
Brand Name	TTA	•			ntification / Date		Other Code		UONE		
Commodity					iner Description	BOARD	Box				
SX Z		ackage Group	MLA [],	% [2] Device	[5] Ir	spection	[6] Sa	mple	[7] Tare Sample	[8] Unrea	sonable
6,49	D Po	bund	Other 🖬	[%] Division Ø	Oloz	ot Size	2 Si	^{ze} /Z	Size (Initial)	Z Minus (UME)	Errors O
[1] Labeled Content Random Average W	or leight (RA)				[D] Error (Initial	[14] Nominal Gross Weight [1] + [13]	E Packa Standard Random (A	ige Error	[3] MAV from Table	[4A] MLA 0, X	[4B] Adjusted MAV [3] + [4A]
Random Average W		[A] Gross Weight	(B) Tare Weight	[C] Net Weight [A] • [B]	tare sample] [C] - [1]	12.93			3=	Labeled Content	
12.480	2		346 v			12.15	Minus (-)	Plus (+)	0.39 oz		
2		12.80	0.45	12.35	-0.13		0,13				
2.		12.93	0.45	12.48	0			0			
3.		12.87					0.06				
4.		13,12						0,19			
5.		12.95						0.0Z			· .
6.		13.16	1./1.100 - 1.1		and a straight ward	- 201		0.23			
7.	· · · · ·	12.76					A 17	0.20			
8.							0.17				
9.		12.58	· · · · ·				0.35	·			
10.		12.84	·				0.09				
		12,70					0,23				
11.		12.59					0,34				
12.		12.97	1.1					0.04			
Total		Total of Tare Weights				Error: Total for Each Column		0.48			en Pri
[9] Rc - Range of Errors [D]	[10] Rt		Ratio of Rc / Rt [12 [9] / [10]	2] Total Number [13] / Tare (Table 2 – 3)	Average [15] To Tare Weight			6] greater than [8]?	[18] Average Error ([15] / [6])	[20] ls [1	8] Zero or Plus?
0.13		\mathbf{h}	æ			0.89	YES: R	EJECT 🔲	- 0.07		ACCEPTLOT
[21] Computed Star	ndard Devia	tion [22] Sample	Correction Factor	[23] Sample Error Lin					ie absolute value of [
of Sample Erro	118	(Table	2 - 1, Col. 3)	[21] × [22]							(initiality)
0.18	42	0.	635	0.11	10		Moisture Loss Allow	-		%	
Average Error [1		celed Content [1]		x 100 =	% En	ror Is	[18] less than or	equal to	[23]	IF YES, ACCEF	
0.0741	1 1	2.48	= 0.0059	x 100 ≃	0,59 ,	ls	[18] greater t	han	[23] + [4A]	IF YES, REJEC	л 🖸
\$	x	Lot Size [5] x	Price Per Packag	je* =	Total \$ Value	ls	[18] greater t	han	[23]		
0.0059	x	102 .	6.49	= \$	3.93		AND less than o	r equal to	[23] + [4A]	IF YES, COMMO	
* IF PRICED P	ER POUN	D: USE PRICE PE		DOM AVERAGE WE						IS IN THE GREY STATUS NOT D	
				1.35 = 0,13			~				
Pka Con	tains	95 screw	os, alet 12	1.35 = 0, 13	oz/unit	_	No Moisture Loss			Loss Allowance ec	juals 0%
<u>*2 ca</u>	atains	3 96 screw	os, Net 12	2,48=0,13	oz /unit	Is 0.074	[18] less than or	equal to Ø11	Z [23]	IF YES, ACC	ЕРТ 🗹
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			[18] greater t	han	[23]	IF YES, REJI	ECT 🗖
						DISPOSITIO		/	Packages Off S (rejected)	ale:	0
				ION 5, SECTI ND PROFESS		 Corrected an 	Released	Destroyed	Packages Acce	oted:	102
						Shipped to: F	Packer	Distributor	-	is Not Determined	
				COMMINGLE			'''		-		12
						Disposition N	ot determined		Packages Weig	hed / Measured	
I HAVE RECEIV		PY OF THIS REPOI	RT AND HAVE BEE	EN GIVEN THE OPPO	RTUNITY TO REVI	EW THE DATA.		V-land-second	INSPECTOR		
									and solon		
49-003 (Rev. 5/	03)	D	EPARTMENT	OF FOOD AND	AGRICULTU	RE - DIVISIO	OF MEASU	REMENT ST	ANDARDS		Δ

				PACKA	GE INSPE	CTION	REPORT			PAGE	- 1 OF Z
CATEGORY B	Date	- 0.	Time			COUNTY			Rej	port # or Off Sale Order	
	6/11/0		20 p.m.		GOLT	DEN				······································	4,50
INSPECTION LOC Packer		-		Address			-		~ ~ ~	N (and the second
	ULTZ	SAUSAC	TE Co.	EST 101		56	, BRYSO	s N,	CA 9	300/	
Brand Name SCH	ULTZ			Other Identification Code Symbols	n / Date 9 /:	20'0	23	ither 03	3A -1196	67	
Commodity		7		Container De		······	i				
OLD FASHI	ONED			PAPE	20 7		APG	R LINE			
14.99		Package [2] Devi Pound	sion 0.003	2 [5] Inspection Lot Size	4,800	<u>></u> '	6] Sample Size 3 ([7] Tare Sample Size (Initial)	5 Min (UM	easonable us Errors 0 IE) Allowed
[1] Labeled Content of Random Average We		[A]	[B] Tare	[C] Net Weight	[D] Error ([14] Nominal C Weight [1] +		[E] Pac Standa	kage Error d [A] - [14] [A] - [13] - [1]	[3] Maximum Allowable Variation (MAV) from table
12 4	35	Gross Weight	Weight	[A] - [B]	tare sam [C] - [12.25	2	Random Minus (-)		1% = 0,12
1.	1	2.190	Q 252	11.938	-0.00	02			0.06Z		
2.		12,290	0,252	12.038	+0.0				0.000	0.038	
3.		12.258	0.254	12.004	+0.0					0.006	
4.		12.254	0.252	12.002	+0.00					0.00Z	
5.		12.300	0,254	12,046	+0.0					0.048	
6.		12.196	<u> </u>						0.056		
7.		12.272		· ·					0.000	0.020	· · · · · · · · · · · · · · · · · · ·
8.		12,244				y admira			0.008	0.0-0	
9.		2,276	***********						0.000	0.024	
10.		12.156					-		0.096	0.047	
11.		12,294		· · · · · · · · · · · · · · · · · · ·	Substrating of				01010	0.042	
12.		12,304		. *	and the second					0.052	en i internetion hei
13.		12.338								0.086	· ·······
14.		2224					· · · ·		0.028	01000	
15.		2.330					· · ·		0,020	0.078	
TOTAL		Total of Tare Weights	1.264				Error: T	otal for Column	0.250	0.396	Total 25 = + 0.146
Average Error [18]	/ Labeled Con		☆ x 10	0	%	[9] Rc - 1			[10] Rt - Range of	Tare Weights. [11] F	Ratio of Rc / Rt
Average Error [10]		=		0 =	70		0.108	I	(See [B]		[9] / [10] [1,
	Lot Size [5]	x Price I		Total \$ Va	%		0.108		0.00	52	54
x		X		= \$			al Number of : nt (Table 2 – 4)	[13] Ave	erage Tare Weight	[15] Total Error	[16] Number of Unreasonable Minus Errors (UME's)
* IF PRICED PER	POUND: US	E PRICE PER POU	ND x LABELED C	ONTENTS			5	Ø,	252	+0.078	1
REMARKS:						[17] Is ['	16] greater than [8]	?	[18] Average Erro	or ([15] / [6]) [19]	Is [18] Zero or Plus?
		andra di stra				YE	6: REJECT			A*	S: ACCEPT LOT
	······	interningendeler			· · · ·	NC	: Continue 🗖]	+ 0,0	026 N	O: REJECT LOT
										Packages Off Sale:	
UNDE	ER PROV	ISIONS OF	DIVISION 5,	ERED OFF S/ SECTION 122 OFESSIONS	211 OF	DISPO	SITION: Date: 💆	<u>ا</u> ل	1,03	(rejected)	4800
DO N	OT MOV	E, TRANSPO	DRT, COMM	INGLE OR		Correct	ed and Released	B D	Destroyed	Packages Accepted:	0
				THORIZATIO					lermined	Packages Weighed / M	easured <u>30</u>
I HAVE RECEN	VED A CO	PY OF THIS P	REPORT AND	HAVE BEEN G	IVEN THE	OPPO SEALER	RTUNITY TO	REVIE	EW THE DATA	NSPECTOR	
Janes	Quest	721	Plan	EMAS	-	¥	Gordon	~	_	End li	hunez,
9-004 (Rev. 0/03)	7	DEPART	MENT OF FO	OD AND AGRIC	ULTURE -	DIVIS	ION OF MEA	SURE	MENT STAND	ARDS	В

CATEGORY	Date	Time		171010	AGE INSPI	COUNTY			Rep	ort # or Off Sa	e Order #	Commod	dity Numb
B	6/11/03	8:20	a.m. p.m.		Gou	DEI	J					4	50
SPECTION LO	CATION AND PARTY	RESPONSIBLE	FOR NET C	ONTENTS Address	· · · ·								
Schu	LTZ												
and Name				Other Identificatio	on / Date		_	Other					
SCHU mmodity	LT2			Container D		20'0	3	07	3A - 1191	60Z			
	HONED BE	EF FRA	NKS	Container D	escription								1.
		[2] Device		[5] Inspection	1.	[3] Sample		[7] Tare Sample		[8] Unreas	sonable	0
	Package Pound	DIVISION		LUCSIZE	4,80	D	Size		Size (Initial)			Allowed	0
Labeled Content andom Average W			B] are	[C] Net Weight	[D] Error		[14] Nominal Weight [1]	Gross + [13]	(E) Pao Standar	kage Error 5 [A] - [14] A] - [13] - [1]		[3] Maximur Variation (MA)	
12 LE	Gross W		aight	[A] - [B]	tare sa [C] -	(1)	12.25	52	Minus (-)		(+)		
	12.1	48							0.104				
·	12,1						a la subar agente age		0,132			·	
	12,3			· · · · · · · · · · · · · · · · · · ·	•					0.00	4		
				· · · · ·				· · ·					
<u></u>	12.3									0.0			
	12,3								A	0.0	18		
	12.2				na an de la				0.018	-			
	12, 2									0.02			÷.,,
<u>.</u>	12, 3			· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	0.00			
	12,2									0.03		<u>. 11</u>	<u>.</u>
	12,2			·	Gale and				· · · · · · · · · · · · · · · · · · ·	0.03			4
	12,3									0.04			-
	12.2				e l		-			0.07	22		
•	12.1								0.098			· .	
	12,2					A state			0.042				
and the state of the	12.1				and the second s				0.108				
TAL		al of Tare Weights					Each	Total for Column	0.502	0.43-		Note B2	-0,0
rage Error [18]	/ Labeled Contents [1]	= 🖈	x 100 =		%	[9] Rc - F	Range of Errors(See [D])	[10] Rt - Range of (See [B])			tio of Rc / Rt 9] / [10]	
	1	=	x 100		%								
ង	x Lot Size [5]	x Price Per Pack	age* =	Total \$ V	alue	[12] Tot	al Number of	[112] Aug	arage Tare Weight [El Total Casa		[40] M	
	x	x	=	\$			nt (Table 2 – 4		aage rare weight [[16] Number Unreasona	able Min
								1				Errors (UN	ME'S)
	R POUND: USE PRICE	PER POUND x L	ABELED CONT	ENTS									
MARKS:				· • • • •		[17] is [1	6] greater than	[8] ?	[18] Average Erro	r ([15] / [6])	[19] Is	[18] Zero or P	Plus?
						YES	REJECT				YES:	ACCEPT LC	от 🗖
		· · · ·				NO	: Continue			1	NO:	REJECT LO	DT 🗖
· · · · · · · · · · · · · · · · · · ·								· · · · · · · · · · · · · · · · · · ·	l				
	SE PACKAGES					DISPOS	SITION: Date:	,		Packages Off (rejected)	Sale:		
	ER PROVISION CALIFORNIA B									4	60	1	
						Correct	ed and Released		estroyed	Packages Xoc	epted:	; '	
	NOT MOVE, TRA POSE OF WITH				N.		Dispositi	on Not det	ermined	Packages Vei	aned / Mes	sured	
											g.104 / 1908		
HAVE RECE	VED A COPY OF	THIS REPOR	RT AND HA	VE BEEN G	SIVEN THE		RTUNITY TO	O REVIE	EW THE DATA	SPECTOR			
NER OR AGENT						1			1				
NER OR AGENT													

-	Date	and the second se				REPORT						z
D 6/17		Time (a.m.)		C	COUNTY			Report	# or Off Sale	e Order #	Commod	•
	<u> </u>	: 35 p.m.	·	MISS	5101	4	×				4,	50
NSPECTION LOCATION acker	AND PARTY RES	PONSIBLE FOR NE	Address						,,.			
CRANDAL	FARMS			IST ST	т	GLOS	STER,	CA	95	665		
WEST RIDGE	FARMO		Other Identification Code Symbols	Date Sell	7.1	Other						
ommodity		, in a second	Container De	scription								
WHOLE BOD				TIC B	AG	, METAL ('		
0.69	Package	Device Division 0,002	[5] Inspection Lot Size	840	3	ij Sample Size 30	[7] Tare S Size (5		Errors	0
] Labeled Content or		(B)		[D] Error (ir		[14] Nominal Gross		(E) Packa	ge Error		Allowed [3] Maximum	
Random Average Weight (RA) [A] Gross Weight	Tare Weight	[C] Net Weight	tare samp	ple)	Weight [1] + [13]			ge Error [A] – [14] – [13] – [1]	Posta	Variation (MA)	V) from
RA 2.810 LB			[A] - [B]	[G.]	A State of the		Minus		Plus (*)		
2.58	2.684	6.122		- 0.01			0.02					
2.65	2.748	0,126		- 0.03			0.02					
3.10	3.182	0,122		-0.0			0.04					
2.46	2.610	0,124	2.486	+0.0		-			0.02	. 1		
3.09	3.228	0,126	3,102	+0.01	12				0.0	14		
2.86	2.972			No.			0,01	-				
2.75	2.842		· · · · · · · · · · · · · · · · · · ·				0.03					
3.04	3.170								0,00	6		
3,15	3.274		· · ·			i			Ó			
2.96	3.074		- -				0.01	0				
2.74	2.860		<u> </u>	S. Arrente			0.00	4	1			
² Z.98	3.112								0.00	28		
3. 2.66	2.772						0.01	2				
4. 2.34	2.466								0.00)Z	6.0	62
5. 2.54	2.646			46 see			0.01	8		· .		
0TAL PG1 41.90	Total of Ta Weig	hts 0,620		n an	and the second sec	Error: Tota Each Colu	umn 0.17		0.05		1604	- 01
verage Error [18] / Labele	ed Contents [1] =	shr x 10	0 =	%	[9] Rc - f	Range of Errors(See		ange of Ta See [B])	re Weights.		atio of RC / Rt [9] / [10]	
0.0089 1 2	. 81 = _	0,0031 × 10	0 = 0.3	<u> </u>	0	0.066	0.	000	4		16.5	•
🖈 🛛 x Lot Siz	e [5] x Pri	ice Per Package*	Total \$ V	alue	[12] Tot	al Number of [13	3] Average Tare We	eight [15	1 Total Error	-	[16] Number	of
0.0031 × 84	40 x 0	.69×2.81	s_5.	15		: nt (Table 2 – 4)			,		Unreasona Errors (U	able Mi
			ONTENTS		ľ	5	0,124		- 0.2	68	C	,
* IF PRICED PER POUNI	D: USE PRICE PER F	OUND X LABELED (UNIENIS		1472 1- **				1 14 21 1 1055	140		
EMARKS:					1	16] greater than [8] ?	[18] Avera	ale Fuol	([15] / [6])	1	(18) Zero or F	
			<u> </u>			S: REJECT 🛄		.00	89		: ACCEPT LO	
<u> </u>	<u></u>): Continue ष				NC	. REJECT LU	
				AL 5			L		ackages Off	Sole		
		VE BEEN ORE OF DIVISION 5			DISPO	SITION: Date: 👍	12.03	3 "	(rejected)	Jaio.	8	40
		NESS AND PF	Corrori	ed and Released 🗹		, _P	ackanes Arr	ented.		0		
		PORT, COM	COMBCI			- "	Packages Accepted:					
DISPOSE	OF WITHOUT	WRITTEN AL		Disposition N	ot determined] Р	ackages We	ighed / Me	asured <u>3</u>	0		
HAVE RECEIVED	COPY OF TH	S REPORT AND	HAVE BEEN G	IVEN THE	OPPO	RTUNITY TO R	EVIEW THE [DATA.				
WNER OR AGENT	/	TITLE			SEALER	n - C	2	INS	PECTOR	0	11	
49-004 (Rev. 6/03)	plan		DD AND AGRIC			ION OF MEASI	IREMENT ST		RDS	y Zu	udll.	1—
10-004 (1997, 0/03)	DEPA			JULI UNE -	DIVIS	ION OF MEASU			1	,	/	

_

					DACKA			DEDOOT			Page		201	- 2
CATEGORY Date	e Time 12-01 7:		JNTY M.	5510		3E IN 31	ECHO	NREPORT	Re	eport / OSO #	Insp. Type		st. Type	Commodity No. 4,50
				5010					1		2	0	0110	4.50
CHECK PARTY RE			15				Addre	\$\$					IN	SPECTED AT
Brand Name	MIL FAR	245		Otherstel	entification		1.0-1							
WEST RI	IGE FAI	ZMS		- Code S			Date	. By 7	-0	2-01	Other			
Commodity				Containe	r Description						I			
WHOLE BE	DY CHICK	EN [2] Unit of Measu	ire.	[5] Insp	ection Lot Siz		(6) Sample Size			171 Tors Com	pla Siza (lait)	1 101 11		
0.39	Package Pound	0.001	LB	fol mob	840					[7] Tare Sample Size (Init.)			Neas. Minus I	Err. (UME) Allowed
[1] Labeled Cont. or Random Avg.	(A) Gross Weight	(B) Tare	[C] Net Wei	ght [1	[13] Avg. [14] Nom. Tare We			[D] Package Em	or	(E En	E) ror	[3] MAV from table		[4] MAV in UOM
RA 2.81		Weight	[A] - [BJ	اردر	12.4 [1].		Std. A - [14 Rdm. A - [13] -	1]	-	+			
1. 2. 71	20.0				5.124						·			
¹ 2.71 ² 2.83	2.818	·						-0.016		16				
$\frac{2.83}{3}$	2.942 2.918							-0.017	•	12				
1 2.93	3.046							+0.00		8	4			<u> </u>
⁵ 3.12	3.226							-0.008		8 18				
6 3.04	3.142						• .	-0.02		22				· · · · ·
7 2.85	2.976							+0.00		24	2			
8 2.97	3.080							-0.014		14				l
9. 3.14	3.256							-0.008		8				
10. 2.66	2.764	·····						-0.020		20				
11. 2.38	2.488			.				-0.016		16		0.	062	62
12 2.56	2.690			_				+0.006			6	0	Jeh_	-62
13. 3.01	3.138							+0,004			4			
14. 2.99	3.096							-0.018		18				
15. 2.44	2.552							-0.012	2	12			h 10/ - C	
TOTAL 84.32	STANDARD: Ran	ge of Net Weights		R/	NDOM: Ran	ge of Erron	\$			164	16			
	/ Labeled Cont. [1]	= \$	x 10)0 =		% Err.	(9) Sid. Rdm	Range of [C] Range of [D]			e of Tare Wts. See [B])		[11] Ratio of [9] /	
		=	x 10	0 =		. *							19.	
st x	Lot Size [5]	x Price Per Pk	g.* =	Tola	al \$ Value	_								
x		x	=	\$		_		no. of Tare (Table 2 - 4)	(15) 1	otal Error	[16] No.	of UME's	[17]	ls [16] greater than [8] ?
													YES	REJECT 🗖
	POUND: USE PRIC	E PER POUND X	LABELED C	ONTENTS						1			NO:	Continue
REMARKS:								erage Error 5] / (6))		[19] Avg. En ([18] x	ror in Labeled ([2])	Units	[20] Is [19] Z	
	·													ccept Lot
<u></u>			· · · ·										NO: F	keject Lot 🛛
										· ·	T	l.		
	E PACKAGES R PROVISIO						DISPOS	TION: Date:			Packages (reject		, des	
	ALIFORNIA						C		٦.		Destaur		300	6
DO NO	OT MOVE, TR	ANSPORT,	COMM	INGLE	OR		Correcte	d and Released L		estroyed L	Packages	Accepted	ZNG	·
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SAMPLE PACKAGE INSPECTION REPORTS

VARIATIONS AND EXPLANATIONS

GENERAL

The formulas used in the boxed areas of the PIRs have been simplified to calculate the data needed for the majority of the inspections. In some instances, modifications must be made to either the formula or data for specific tests or products.

#1, page 8-55, Old Erin Irish Soda Bread

Even though the lot is accepted, complete the calculations for % ERROR and TOTAL \$ (DOLLAR) VALUE. In general, complete both these sections for any lot with a minus average error, even if the lot is accepted.

#2, page 8-56, Big Top Round Steak

The Category is **A**. Even though the commodity is meat, this inspection is not being conducted in a USDA Packing Plant. According to the Retail Exemption in Federal Regulations, a retail establishment packaging meat or poultry for sale at the same retail location is not considered to be a USDA packing plant or under USDA inspection.

The Group is "OTHER." There are two reasons for this:

- 1. The commodity is not federally regulated.
- 2. There is no distribution; the packages are for sale at the packing location.

Note: Moisture loss consideration is only given when required by a Federal agency and is only for unavoidable moisture loss occurring in good distribution.

The MAV is from Table 2-5 (page 8-42) Packages Labeled by Weight. This Table, 2-5, is used, not Table 2-9, because the commodity is not packaged in a USDA Plant. A quick way to determine this is to look for the USDA Establishment number and logo on the package.

#3, page 8-57, Yankee Vermont Sharp Cheddar Cheese

The Group is OTHER, not MLA. Step 3, question MLA 3, page 8-12, asks "Is the commodity packaged in a way that allows moisture to evaporate into the atmosphere?" As plastic vacuum pack allows no evaporation, the inspector must continue to group OTHER. Since food is regulated by Federal Food and Drug Administration, moisture loss must be considered. Due to the packaging, the moisture loss is determined to be 0%. (Step 3, GROUP OTHER, 2d, UNUSED OR DRIED USED TARE, page 8-14.)

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#4, page 8-58, West Ridge Farms Whole Body Chicken THIS EXAMPLE IS DATED

The Category is **A**. Even though the commodity is poultry and it was packaged in a USDA establishment, this inspection is not being conducted in the USDA Packing Plant.

Since this lot was packaged, weighed, and labeled in a USDA establishment, the MAV is from Table 2-9, U.S. Department of Agriculture, Meat and Poultry, Groups and Lower Limits for Individual Packages, page 8-48. To determine if Table 2-9 should be used, look for a USDA establishment number and logo on the package. Use Table 2-9 if one is present. If there is no establishment number, use Table 2-5. **USDA packaged fresh meat products' net weight is determined using "Used dry tare" not wet tare.**

<u># 5, page 8-59, Mayfield Cider Vinegar</u>

In this example, the labeled content is stated in fluid ounces, but the inspection is being done in terms of fluid drams and the errors will be recorded as fluid drams.

To apply the formulas for boxes **[4]** and **[19]**, the moisture loss allowance and labeled content must be in the same terms (i.e., fluid drams).

The MAV **[4]** must also be in the fluid drams. To convert from fluid ounces to fluid drams, follow the steps outlined below.

The MAV for 18 fluid ounces is 0.63 fl oz (Table 2-6, page 8-44)

8 fluid drams = 1 fluid ounce

The MAV stated in fluid drams is 5.04 (0.63 fl oz x 8 fl dr/1 fl oz)

To compute the % Error and Total \$ Value the Average Error and the Labeled Content must be in the same terms (e.g., both in fluid ounces or both in fluid drams).

In this example, the Average Error **[18]** is converted to fluid ounces for the calculations.

Divide the average error by the number of fluid drams in a fluid ounce: $0.75 \div 8 = 0.09375$ fl oz

#6, page 8-60, Oak Creek Cabernet Sauvignon

An example of moisture loss in a bottle because the wine is absorbed into the cork of the bottle.

#7, page 8-61, Night Flower Peanut Oil

The tare sample packages are used to establish the weight for 1/2 gallon of oil.

The MAV is from Table 2-6, Packages **Labeled by Liquid or Dry Volume**, page 8-44. It is converted to pounds using the weight per 1/2 gallon of oil.

1/2 gallon = 64 fluid ounces = 3.71 lb3.71 lb ÷ 64 fl oz = 0.0579 lb per fluid ounce MAV = 1.5 fluid ounces (from table) MAV in terms of weight: $1.5 \text{ fl oz} \times 0.0579 \text{ lb}$ per fl oz = 0.086 lb

#8, page 8-63, Titan #8 x 2-1/4 Wood Screws

The packages in this lot are labeled with count, but since the count is greater than 50, the lot is tested using Category A.

In this example the test is conducted by weight. The tare sample is used to calculate the weight of the "Labeled Content" and the Weight of the "MAV" (Maximum Allowable Variation).

The MAV is from Table 2-7, Packages Labeled by Count, page 8-46. It is converted to ounces using the calculated weight per unit. (See data recorded in Remarks section.)

Package #1 contains 95 screws and has a net weight of 12.35 oz

Weight of one screw is $12.35 \div 95 = 0.13$ oz

Package #2 contains 96 screws and has a net weight of 12.48 oz

Weight of one screw is $12.48 \div 96 = 0.13$ oz

Labeled content by weight is $96 \times 0.13 = 12.48$ oz

MAV from the table is 3 screws x 0.13 = 0.39 oz

#9, pages 8-64 to 8-67 examples of Form B

#10, page 8-68, example of Form C

Note that a certain number of undercount packages are allowed and only the box that exceeded the MAV was rejected.

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