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.

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.

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/nist-handbooks/other-nist-handbooks/other-nist-handbooks-2-0

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

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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. COMMODITY GROUPS: 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. BASIC INFORMATION: 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. 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. TARE DETERMINATION: Include more Tare Sample Packages if needed

8. PACKAGE ERROR DETERMINATION

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10. UNREASONABLE MINUS ERRORS (UME): Identify by circling

11. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA: 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

Summary, Category A

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. BASIC INFORMATION: 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. SAMPLE AND INITIAL TARE SAMPLE SELECTION

6. TARE DETERMINATION: Include more Tare Sample Packages if needed

7. PACKAGE ERRORS: Determine and record package errors for the sample

8. MAXIMUM ALLOWABLE VARIATION (MAV): 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

11. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA: 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). $AE \leq SEL$

    ► 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. $(SEL + MLA) \geq AE > SEL$

    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

Category B Inspections: USDA Packing Plant Inspections Only

Category B, Standard Pack

3. BASIC INFORMATION: 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. SAMPLE AND INITIAL TARE SAMPLE SELECTION

6. TARE DETERMINATION: Include more Tare Sample Packages if needed.

7. PACKAGE ERRORS: Determine and record package errors for the sample.

8. TOTAL ERROR CALCULATION

9. UNREASONABLE MINUS ERRORS (UME): Identify by circling

10. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA: 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. BASIC INFORMATION: 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. SAMPLE AND INITIAL TARE SAMPLE SELECTION: Table 2-2 (page 8-38)

5. TARE DETERMINATION: Include more Tare Sample Packages if needed

6. PACKAGE ERRORS: Determine and record package errors for the sample

Summary, Category B

7. MAXIMUM ALLOWABLE VARIATION: Look up MAV for lightest package by using Table 2-9 (page 8-48).

8. TOTAL ERROR CALCULATION

9. UNREASONABLE MINUS ERRORS (UME): Identify by circling

10. DETERMINE LOT COMPLIANCE WITH THE MAV CRITERIA: 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. BASIC INFORMATION: Use Table 2-11 (page 8-50) to look up Sample Size, Number of Packages Allowed to Contain Fewer Than the Labeled Count.

4. MAXIMUM ALLOWABLE VARIATION (MAV): Use Table 2-7 (page 8-46) to look up the Maximum Allowable Variation (MAV).

5. SAMPLE SELECTION: Take a random sample from the lot

6. PACKAGE ERROR DETERMINATION: Count items and determine amount in container

7. TOTAL ERROR CALCULATION

8. MINUS ERRORS: 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. UNREASONABLE MINUS ERRORS (UME): 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 LABELED 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.

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

Flour

Dry Pet Food (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 does 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

1. Is the commodity subject to Federal Agency regulations except 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 or 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 **GROUP MLA**, 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.

GROUP OTHER - 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%.

Mulch and Soil: (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.

Firewood: 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. TARE DETERMINATION

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 are not 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 are 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.

STEP 12. AVERAGE ERROR

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. DETERMINE LOT COMPLIANCE WHEN THE AVERAGE ERROR **[18]** IS MINUS. (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 (☆) 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. SAMPLE AND INITIAL TARE SAMPLE

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. TARE DETERMINATION

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. PACKAGE ERRORS

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

a. If errors are not 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%.

Mulch and Soil: (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.

Firewood: 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. DETERMINE LOT COMPLIANCE - AVERAGE ERROR **[18]** IS MINUS
(If the average error is zero or plus, the lot status has already been determined.)

If the commodity is in Group MLA: 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 (☆) 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. SAMPLE AND INITIAL TARE SAMPLE SELECTION

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. TARE DETERMINATION **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.

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. PACKAGE ERRORS

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. 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 **[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. SAMPLE AND INITIAL TARE SAMPLE

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. TARE DETERMINATION **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. PACKAGE ERRORS 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. MAXIMUM ALLOWABLE VARIATION (MAV) 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.

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. SAMPLE SELECTION

Randomly select the Sample Packages from the inspection lot.

STEP 6. PACKAGE ERRORS

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

STEP 7. TOTAL ERROR

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

STEP 8. MINUS ERRORS 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. AVERAGE ERROR

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

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 point-of-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.

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

MLA Computations: 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)

MLA Computations (Continued):

MLA: 12 oz labeled weight

3% MLA ÷ 100 = 0.03

12 oz x 0.03 = 0.36 oz

MAV from Table

9/16 oz = 0.5625 oz

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

Inspection Lot: 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.

Nominal Gross Weight: 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.

Random Pack Lot: 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.

Sample Error Limit: 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).

Standard Pack Lot: 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.

Standard Deviation of a Sample: 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.

$$\sqrt{\frac{\sum x_i^2 - (\sum x_i)^2 / n}{(n-1)}}$$

$\sum$ means the sum of
x_i means the individual package errors
n means the sample size (number of items in the sample)

Written out, this is the square root of: the sum of the squares of the individual package errors 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.

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

x_i	x_i^2
+ 1	1
- 3	9
- 4	16
- 2	4
- 3	9
- 1	1
0	0
+ 2	4
- 2	4
- 3	9
- 1	1
0	0

$$\sqrt{\frac{\sum x_i^2 - (\sum x_i)^2 / n}{(n-1)}}$$

x_i -16 x_i^2 58

Calculate the square root of: $\frac{58 - [(-16)^2 / 12]}{(12-1)}$

$$\frac{58 - (256 / 12)}{11}$$

$$\frac{58 - 21.33}{11}$$

$$\frac{36.67}{11}$$

3.33

Both the square root and the Standard Deviation are 1.82.

$\sum$

Tare: 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.

Dried Used Tare: 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.

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

Used Tare: 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 <u>DO NOT</u> 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

Table 2-1. Sampling Plans for Category A

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 Sample Size[a] (n_t)	
1	1	Apply MAV	0	Glass and Aerosol Packages	All Other Packages
2	2	8.984		2	2
3	3	2.484			
4	4	1.591			
5	5	1.241			
6	6	1.050			
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		
Sample Error Limit (SEL) = sample standard deviation x sample correction factor (column 3)					

[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_c/R_t or to take additional tare samples.

Table 2-2. Sampling Plans for Category B
Use 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 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	12	24		48	
Initial Tare Sample Size	2	2	3	2	3
If R_t equals "zero," use Initial Tare Sample Size. If the ratio is "zero" based on a "zero" R_c open all of the packages in the sample.	2	2	3	2	3
If the ratio is greater than 0 but less than or equal to 0.2	12	24	24	48	48
0.21 to 0.60	12	24	24	48	48
0.61 to 0.70	12	24	24	47	47
0.71 to 0.80	12	23	23	47	47
0.81 to 1.00	12	23	23	46	46
1.01 to 1.10	11	23	23	46	46
1.11 to 1.20	11	23	23	45	45
1.21 to 1.30	11	22	22	45	45
1.31 to 1.50	11	22	22	44	44
1.51 to 1.60	11	22	22	43	43
1.61 to 1.70	11	21	21	42	42
1.71 to 1.80	10	21	21	42	42
1.81 to 1.90	10	21	21	41	41
1.91 to 2.00	10	20	20	41	41
2.01 to 2.10	10	20	20	40	40
2.11 to 2.20	10	20	20	39	39
2.21 to 2.30	10	19	19	39	39
2.31 to 2.40	9	19	19	38	38
2.41 to 2.50	9	19	19	37	37
2.51 to 2.60	9	18	18	37	37
2.61 to 2.70	9	18	18	36	36
2.71 to 2.80	9	18	18	35	35
2.81 to 2.90	9	17	17	34	34
2.91 to 3.00	8	17	17	34	34
3.01 to 3.10	8	17	17	33	33
3.11 to 3.30	8	16	16	32	32
3.31 to 3.40	8	16	16	31	31
3.41 to 3.50	8	15	15	30	30
3.51 to 3.60	7	15	15	30	30
3.61 to 3.70	7	15	15	29	29
3.71 to 3.90	7	14	14	28	28
3.91 to 4.00	7	14	14	27	27
4.01 to 4.10	7	13	13	27	27
4.11 to 4.20	7	13	13	26	26
4.21 to 4.30	6	13	13	25	25
4.31 to 4.40	6	12	12	25	25
4.41 to 4.60	6	12	12	24	24
4.61 to 4.70	6	12	12	23	23
4.71 to 4.80	6	11	11	23	23
4.81 to 4.90	6	11	11	22	22
4.91 to 5.00	5	11	11	22	22

Go to Next Page for Additional Values.

Table 2-3. (Continued)
Category A – 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	12	24		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

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

SI Units	
Labeled Weight[b]	MAV
grams (g)	Grams (g)
≤ 36	10% of labeled quantity
> 36 54	3.6
> 54 81	5.4
> 81 117	7.2
> 117 ≤ 154	9.0
> 154 ≤ 208	10.8
> 208 ≤ 263	12.7
> 263 ≤ 317	14.5
> 317 ≤ 381	16.3
> 381 ≤ 426	18.1
> 426 ≤ 489	19.9
> 489 ≤ 571	21.7
> 571 ≤ 635	23.5
> 635 ≤ 698	25.4
> 698 ≤ 771	27.2

Inch-Pound Units		
Labeled Weight[b]	MAV	
Pound (lb) or Ounce (oz)	Decimal Pound (lb)	Fractional Ounce (oz)
≤ 0.08 lb ≤ 1.28 oz	10% of labeled quantity	
> 0.08 lb ≤ 0.12 lb > 1.28 oz ≤ 1.92 oz	0.008	1/8
> 0.12 lb ≤ 0.18 lb > 1.92 oz ≤ 2.88 oz	0.012	3/16
> 0.18 lb ≤ 0.26 lb > 2.88 oz ≤ 4.16 oz	0.016	¼
> 0.26 lb ≤ 0.34 lb > 4.16 oz ≤ 5.44 oz	0.020	5/16
> 0.34 lb ≤ 0.46 lb > 5.44 oz ≤ 7.36 oz	0.024	3/8
> 0.46 lb ≤ 0.58 lb > 7.36 oz ≤ 9.28 oz	0.028	7/16
> 0.58 lb ≤ 0.70 lb > 9.28 oz ≤ 11.20 oz	0.032	½
> 0.70 lb ≤ 0.84 lb > 11.20 oz ≤ 13.44 oz	0.036	9/16
> 0.84 lb ≤ 0.94 lb > 13.44 oz ≤ 15.04 oz	0.040	5/8
> 0.94 lb ≤ 1.08 lb > 15.04 oz ≤ 17.28 oz	0.044	11/16
> 1.08 lb ≤ 1.26 lb	0.048	¾
> 1.26 lb ≤ 1.40 lb	0.052	13/16
> 1.40 lb ≤ 1.54 lb	0.056	7/8
> 1.54 lb ≤ 1.70 lb	0.060	15/16

[a] Applies only to shortages in package weight (that is, the MAV is compared with minus package errors only)
[b] > means "greater than"
≤ means "less than or equal to"
See Category A, Step 5a for polyethylene and Table 2-10

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)

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

Inch-Pound Units		
Labeled Weight	**MAV**	
Pound (lb)	**Decimal Pound (lb)**	**Ounce (oz)**
> 1.70 lb ≤ 1.88 lb	0.064	1
> 1.88 lb ≤ 2.14 lb	0.070	1 1/8
> 2.14 lb ≤ 2.48 lb	0.078	1 ¼
> 2.48 lb ≤ 2.76 lb	0.086	1 3/8
> 2.76 lb ≤ 3.20 lb	0.094	1 ½
> 3.20 lb ≤ 3.90 lb	0.11	1 ¾
> 3.90 lb ≤ 4.70 lb	0.12	2
> 4.70 lb ≤ 5.80 lb	0.14	2 ¼
> 5.80 lb ≤ 6.80 lb	0.15	2 ½
> 6.80 lb ≤ 7.90 lb	0.17	2 ¾
> 7.90 lb ≤ 9.40 lb	0.19	3
> 9.40 lb ≤ 11.70 lb	0.22	3 ½
> 11.70 lb ≤ 14.30 lb	0.25	4
> 14.30 lb ≤ 17.70 lb	0.28	4 ½
> 17.70 lb ≤ 23.20 lb	0.31	5
> 23.20 lb ≤ 31.60 lb	0.37	6
> 31.60 lb ≤ 42.40 lb	0.44	7
> 42.40 lb ≤ 54.40 lb	0.50	8
> 54.40 lb	2% of labeled 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 Units		
Labeled Quantity (mL)[d]		Liquid and Dry MAV (mL)
	≤ 3	0.5[c]
> 3	≤ 8	1.0[c]
> 8	≤ 14	1.5[c]
> 14	≤ 22	1.7
> 22	≤ 66	3.8
> 66	≤ 125	5.6
> 125	≤ 170	7.3
> 170	≤ 221	9.1
> 221	≤ 347	11.2
> 347	≤ 502	14.7
> 502	≤ 621	18.6
> 621	≤ 798	22.1

Liquid Measure Equivalents:
1 pint = 16 fl oz
1 quart = 32 fl oz
1 gallon = 128 fl oz

Inch-Pound Units					
Labeled Quantity[d] (fl oz)		Liquid MAV (fl oz)	Labeled Quantity[d] (cu in)		Dry MAV (cu in)
	≤ 0.50	02[b]		≤ 0.18	0.03
> 0.50	≤ 0.75	0.06	> 0.18	≤ 0.49	0.06
> 0.75	≤ 2.25	0.13	> 0.49	≤ 0.92	0.09
> 2.25	≤ 4.25	0.19	> 0.92	≤ 1.35	0.10
> 4.25	≤ 5.75	0.25	> 1.35	≤ 4.06	0.23
> 5.75	≤ 7.50	0.31	> 4.06	≤ 7.66	0.34
> 7.50	≤ 11.75	0.38	> 7.66	≤ 10.37	0.45
> 11.75	≤ 17.00	0.50	> 10.37	≤ 13.53	0.55
> 17.00	≤ 21.00	0.63	> 13.53	≤ 21.20	0.68
> 21.00	≤ 27.00	0.75	> 21.20	≤ 30.67	0.90
> 27.00	≤ 31.00	0.88	> 30.67	≤ 37.89	1.13
> 31.00	≤ 39.00	1.00	> 37.89	≤ 48.72	1.35
> 39.00	≤ 55.00	1.25	> 48.72	≤ 55.94	1.58
> 55.00	≤ 69.00	1.50	> 55.94	≤ 70.38	1.80

[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”.
≤ means “less than or equal to”.

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

SI Units	
Labeled Quantity (mL) (L)	**Liquid and Dry MAV (mL)**
> 798 ≤ 916 mL	26.0
> 916 mL ≤ 1.15 L	29
> 1.15 L ≤ 1.62	36
> 1.62 ≤ 2.04	44
> 2.04 ≤ 2.51	51
> 2.51 ≤ 3.04	59
> 3.04 ≤ 4.73	73
> 4.73 ≤ 5.48	88
> 5.48 ≤ 7.09	103
> 7.09 ≤ 8.04	118
> 8.04 ≤ 10.17	133
> 10.17 ≤ 11.59	147
> 11.59 ≤ 16.56	177
> 16.56 ≤ 18.92	207
> 18.92 ≤ 23.65	236
> 23.65 ≤ 26.73	266
> 26.73	1% of Labeled Quantity
See Category A, Step 5a. for Exception: Bark Mulch	

Inch-Pound			
Labeled Quantity (fl oz)	**Liquid MAV (fl oz)**	**Labeled Quantity (cu in)**	**Dry MAV (cu in)**
> 69.00 ≤ 85.00	1.75	> 70.38 ≤ 99.25	2.25
> 85.00 ≤ 103.00	2.0	> 99.25 ≤ 124.5	2.70
> 103 ≤ 160 (1.25 gal)	2.5	> 124.5 ≤ 153.3	3.1
> 160 ≤ 185.6	3.0	> 153.3 ≤ 185.8	3.6
> 185.6 ≤ 240	3.5	> 185.8 ≤ 288.7	4.5
> 240 ≤ 272	4.0	> 288.7 ≤ 334.9	5.4
> 272 ≤ 344	4.5	> 334.9 ≤ 443.1	6.3
> 344 ≤ 392	5.0	> 443.1 ≤ 490.8	7.2
> 392 ≤ 560	6.0	> 490.8 ≤ 620.8	8.1
> 560 ≤ 640 (5 gal)	7.0	> 620.8 ≤ 707.4	9.0
> 640 ≤ 800	8.0	> 707.4 ≤ 1010	10.8
> 800 ≤ 904	9.0	> 1010 ≤ 1155	12.6
> 904	1% of Labeled Quantity	> 1155 ≤ 1443	14.4
		> 1443 ≤ 1631	16.2
		> 1631	1% of Labeled Volume
Dry Measure Equivalent: 1 Dry Pint = 33.6003125 cu in 1 Dry Quart = 67.200625 cu in		1 Bushel = 2150.42 cu in 1 cu ft = 1728 cu in	

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

Labeled Count	MAV
≤ 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

[a]Applies only to shortages in package count (that is, minus package errors).
[b]See Category C Sampling Plans for use with these package sizes.

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

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

Inch-Pound Units of Measure		
Length		**Area**
Labeled in Yards	**MAV in Percent (%) of the Labeled Length**	
≤[b] 1	3	The MAV for packages labeled by area is 3% of the labeled quantity
over 1 to 48	1.5	
over 48 to 96	2	
over 96 to 154	2.5	
over 154 to 330	3	
over 330 to 1100	4	
over 1100	5	

[a] Applies only to shortages in package measure (that is, minus package errors).
[b] ≤ 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 and Labeled Quantity		Lower Limit (MAV) for Individual Weights - Also known as Unreasonable Minus Errors – UME's (Use the limits according to the scale division being used)		
Homogeneous, Fluid when Filled (e.g., baby food or containers of lard)	All Other Products			
Less than 85 g (3 oz)	Less than 85 g (3 oz)	10% of labeled quantity		
		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 16/32 8/16 5/10 4/8 2/4	0.031
	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 labeled quantity		

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

	Maximum Allowable Variations (MAVs)
Polyethylene Sheeting And Film	**Thickness** When the labeled thickness is 25 µm (1 mil or 0.001 in) or less, any individual thickness measurement of polyethylene film may be up to 35 % below the labeled thickness. When the labeled thickness is greater than 25 µm (1 mil or 0.001 in), individual thickness measurements of polyethylene sheeting may be up to 20 % less than the labeled thickness. The average thickness of a single package of polyethylene sheeting may be up to 4 % less than the labeled thickness. **Weight** The MAV for individual packages of polyethylene sheeting and film shall be 4 % of the labeled quantity.
Textiles	The MAVs are: For packages labeled with dimensions of 60 cm (24 in) or more: 3 % of the labeled quantity for negative errors and 6 % of the labeled quantity for plus errors. For packages labeled with dimensions less than 60 cm (24 in): 6 % of the labeled quantity for negative errors and 12 % for plus errors.
Mulch and Soil Labeled by Volume	The MAVs are: For individual packages: 5 % of the labeled volume. For 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 Than 50 Items	MAVs are not applied to these packages.

Table 2-11. Accuracy Requirements for Packages Labeled by Low Count (50 or Less) and Packages Given Tolerances (Glass and Stemware)			
	1	**2**	**3**
Inspection Lot Size	Sample Size	For Packages Labeled by Low Count (50 or Less)	For Packages Given Tolerances (Glasses and Stemware)
		Number of Packages Allowed to Contain Less than the Labeled Count	Number of Package Errors that May Exceed the Allowable Difference
1 – 11	1 – 11	1	0
12 – 250	12	1	0
251 – 3 200	24	2	1
More than 3 200	48	3	2

Table 3-2. Allowable Differences for Pressed 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 Date and Time the inspection begins.

   b. The complete name of the County conducting the inspection. S.B. could be Santa Barbara, San Benito, or San Bernardino

   c. Report or Off Sale Number (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. Commodity Number: 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. Packer 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. Distributor 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. Dealer 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. Brand Name: Trademark or the name the commodity is marketed under. For "Blue Seas Chunk Light Tuna," Blue Seas is the brand name.

b. Commodity: Identity of the commodity. In the above example, the commodity is "Chunk Light Tuna."

c. Other Identification - Code Symbols:

(1) Date: 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) Other: Any code or identifying marks on the package designating the part of the production or the location that this commodity is from.

d. Container Description: 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. $ (price per) Package (or) Pound: 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. Remarks: Any other information, not included elsewhere, concerning the commodity or inspection.

b. Off Sale Order: If the lot has been rejected as a result of this inspection, it is ordered "Off Sale" by checking this box.

c. Disposition: 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) Off Sale: The number of packages rejected as a result of this inspection.

(2) Accepted: The number of packages accepted by this inspection.

(3) Status not determined: 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) Weighed/Measured: 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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PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/10/03	3:05 a.m. (p.m.)	GOLDEN		3.01

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

- ✓ Packer: PERRIN BAKERY — Address: 1608 S. INDUSTRIAL PARKWAY, ROCKWOOD, OR 86095
- Distributor: VALENTINO WHOLESALE GROCERY — Address: BUTTES, CA 95994
- Dealer: BIG TOP MARKET — Address: 141 FIFTH AVE., ELMIRA, CA 93069 — ✓

Brand Name: OLD ERIN — Other Identification / Code Symbols: Date Code: BLUE CLIP — Other Code: 2501-6A

Commodity: IRISH SODA BREAD — Container Description: CELLO WRAP, OUTER PLASTIC BAG, PLASTIC CLIP

$	Package / Pound	Group	MLA / Other	%	[2] Device Division	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Initial)	[8] Unreasonable Minus Errors (UME) Allowed
2.29	☑ Package ☐ Pound		☑ MLA ☐ Other	1	19	8	8	2	0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error [Initial tare sample] [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Minus (–)	[E] Package Error Plus (+)	[3] MAV from Table	[4A] MLA 0.01 X Labeled Content	[4B] Adjusted MAV [3] + [4A]
300 g 10¼ oz					308.5			15	3	18
1.	307	8				1.5				
2.	304	9				4.5				
3.	315						6.5			
4.	296					12.5				
5.	298					10.5				
6.	300					8.5				
7.	314						5.5			
8.	306					2.5				
9.										
10.										
11.										
12.										
Total		Total of Tare Weights			Error: Total for Each Column	40	12			

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
NA	NA	NA	2	8.5	-28	0	YES: REJECT ☐ NO: Continue ☑	-3.5	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
6.9897	0.836	5.8434

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

3.5 / 300 = 0.0116 x 100 = 1.16 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0116 x 8 x 2.29 = $ 0.21

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☑ Moisture Loss Allowance is greater than 0% 1.0 %

Is 3.5 [18] less than or equal to 5.843 [23] IF YES, ACCEPT ☑

Is _____ [18] greater than _____ [23] + [4A] IF YES, REJECT ☐

Is _____ [18] greater than _____ [23]

AND less than or equal to _____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☐ No Moisture Loss Allowance OR ☐ Moisture Loss Allowance equals 0%

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is _____ [18] greater than _____ [23] IF YES, REJECT ☐

☐ THESE PACKAGES HAVE BEEN ORDERED OFF SALE UNDER PROVISIONS OF DIVISION 5, SECTION 12211 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☐ Distributor ☐ On ____/____/____

Disposition Not determined ☐

Packages Off Sale: (rejected)	0
Packages Accepted:	8
Packages Status Not Determined	0
Packages Weighed / Measured	8

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR

8-56
Rev. 11/09

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/10/03	9:40 a.m. p.m.	GOLDEN		4.50

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓	Packer: BIG TOP MARKET	Address: 141 FIFTH AVE., ELMIRA, CA 93069	✓
	Distributor	Address	
	Dealer	Address	

Brand Name: BIG TOP — Other Identification / Code Symbols — Date Code: 06-11-03 — Other Code

Commodity: ROUND STEAK — Container Description: TRAY, WRAP, SOAKER

$ 3.89 — ☐ Package ☑ Pound — Group MLA ☐ Other ☑ % — [2] Device Division 0.01 LB — [5] Inspection Lot Size 14 — [6] Sample Size 12 — [7] Tare Sample Size (Initial) 2 — [8] Unreasonable Minus Errors (UME) Allowed 0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error [Initial tare sample] [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] - [14] Random [A] - [13] - [1]: Minus (-)	Plus (+)	[3] MAV from Table	[4A] MLA 0.____ X Labeled Content	[4B] Adjusted MAV [3] + [4A]
RA 2.42 LB										
1. 2.41	2.50	0.09	2.41	0		0.01				
2. 2.32	2.36	0.10	2.26	-0.06		0.06				
3. 2.29	2.38	0.13				0.01		0.078		
4. 2.53	2.59	0.08				0.04				
5. 2.46	2.55					0.01				
6. 2.39	2.49						0			
7. 2.34	2.43					0.01				
8. 2.62	2.70					0.02				
9. 2.45	2.52					0.03				
10. 2.37	2.45					0.02				
11. 2.42	2.50					0.02				
12. 2.48	2.56					0.02				
Total 29.08	Total of Tare Weights	0.40			Error: Total for Each Column	0.25	0			

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
0.06	0.01	6	4	0.10	-0.25	0	YES: REJECT ☐ NO: Continue ☑	-0.0208	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
0.0162	0.635	0.0102

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

0.0208 / 2.42 = 0.0085 x 100 = 0.85 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0085 x 14 x 3.89 x 2.42 = $ 1.13

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☐ Moisture Loss Allowance is greater than 0% _____ %

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is _____ [18] greater than _____ [23] + [4A] IF YES, REJECT ☐

Is _____ [18] greater than _____ [23]
AND less than or equal to _____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☑ No Moisture Loss Allowance OR ☐ Moisture Loss Allowance equals 0%

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is 0.0208 [18] greater than 0.0102 [23] IF YES, REJECT ☑

☑ THESE PACKAGES HAVE BEEN ORDERED OFF SALE UNDER PROVISIONS OF DIVISION 5, SECTION 12211 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: 6/10/03
Corrected and Released ☑ Destroyed ☐
Shipped to: Packer ☐ Distributor ☐ On ___/___/___
Disposition Not determined ☐

Packages Off Sale: (rejected)	14
Packages Accepted:	0
Packages Status Not Determined	0
Packages Weighed / Measured	12

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR
[signature]	Mgr	[signature]	[signature]

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/10/03	11:20 a.m. p.m.	GOLDEN		2.04

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓	Packer: DOWN EAST CHEESE CO	Address: PORTERVILLE, VERMONT 00121	
	Distributor: RACO FOODS	Address: 1001A WESTSIDE BLVD, METRO, CA 95001	
	Dealer: BIG TOP MARKET	Address: 141 FIFTH AVE, ELMIRA CA 93069	✓

Brand Name: YANKEE — Other Identification / Code Symbols — Date Code: 3-12-04 — Other Code

Commodity: VERMONT SHARP CHEDDAR — Container Description: PLASTIC VACUUM PACK

$ 4.29 ☐ Package ☒ Pound — Group MLA ☐ % Other ☑ — [2] Device Division: 0.01 LB — [5] Inspection Lot Size: 28 — [6] Sample Size: 12 — [7] Tare Sample Size (Initial): 2 — [8] Unreasonable Minus Errors (UME) Allowed: 0

	[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (Initial tare sample) [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] - [14] Random [A] - [13] - [1] Minus (-)	[E] Plus (+)	[3] MAV from Table	[4A] MLA 0 ____ X Labeled Content	[4B] Adjusted MAV [3] + [4A]
1.	1.64	1.70	0.02	1.68	+0.04			0.04			
2.	1.71	1.66	0.02	1.64	-0.07		(0.07)		0.064		
3.	1.55	1.58						0.01			
4.	1.68	1.73						0.03			
5.	1.48	1.45					0.05		0.056		
6.	1.57	1.63						0.04			
7.	1.55	1.52					0.05				
8.	1.62	1.67						0.03			
9.	1.67	1.71						0.02			
10.	1.59	1.60					0.01				
11.	1.64	1.66						0			
12.	1.61	1.65						0.02			
Total	19.31	Total of Tare Weights				Error: Total for Each Column	0.18	0.19			

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]? YES: REJECT ☑ NO: Continue ☐	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus? YES: ACCEPT LOT ☐ NO: Go to [21] ☐
0.11	0	∞	2	0.02	+0.01	1		+0.0008	

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

____ / ____ = ____ x 100 = ____ %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

____ x ____ x ____ = $ ____

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☐ Moisture Loss Allowance is greater than 0% ____ %

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] + [4A] IF YES, REJECT ☐

Is ____ [18] greater than ____ [23]

AND less than or equal to ____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☐ No Moisture Loss Allowance OR ☑ Moisture Loss Allowance equals 0%

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] IF YES, REJECT ☐

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DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☐ Distributor ☑ On 6/11/03

Disposition Not determined ☐

Packages Off Sale: (rejected) 28

Packages Accepted: 0

Packages Status Not Determined 0

Packages Weighed / Measured 12

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR
[signature]	Mgr	[signature]	[signature]

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6-10-03	9:05 a.m. p.m.	GOLDEN		4.12

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓	Packer: CRANDALL FARMS P8654C	Address: GLOSTER, CA 95665	
	Distributor: MRS. HAMILTON'S FINE FOODS	Address: 200 PALM AVE. EASTWOOD, CA 93081	
	Dealer: BIG TOP MARKET	Address: 141 FIFTH AVE, ELMIRA, CA 93069	✓

Brand Name: WEST RIDGE FARMS — Other Identification / Code Symbols — Date Code: SELL BY 06-22-03 — Other Code:

Commodity: WHOLE BODY CHICKEN — Container Description: PLASTIC BAG, METAL CLIP, SOAKER

$		Group	[2] Device Division	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Initial)	[8] Unreasonable Minus Errors (UME) Allowed
1.99	☐ Package ☑ Pound	MLA ☑ Other ☐ 3 %	0.002 LB	31	12	2	0

	[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (initial tare sample) [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] - [14] Random [A] - [13] - [1] Minus (-)	[E] Package Error Standard Plus (+)	[3] MAV from Table	[4A] MLA 0.03 X Labeled Content	[4B] Adjusted MAV [3] + [4A]
	RA 2.523 LB									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.	2.32	2.404	0.182				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				0.050		0.062	0.067	0.129
10.	2.44	2.568	0.184				0.076				
11.	3.09	3.304	0.272					0.010			
12.	2.69	2.776	0.208				0.118				
Total	30.28	Total of Tare Weights	2.448			Error: Total for Each Column	0.884	0.010			

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
0.014	0.054	0.259	12	0.204	-0.874	0	YES: REJECT ☐ NO: Continue ☑	-0.0728	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
0.03939	0.635	0.0250

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

0.0728 / 2.523 = 0.0288 x 100 = 2.88 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0288 x 31 x 1.99 x 2.523 = $ 4.49

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☑ Moisture Loss Allowance is greater than 0% 3.0 %

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is _____ [18] greater than _____ [23] + [4A] IF YES, REJECT ☐

Is 0.0728 [18] greater than 0.0250 [23]

AND less than or equal to 0.1006 [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☑

OTHER ☐ No Moisture Loss Allowance OR ☐ Moisture Loss Allowance equals 0%

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is _____ [18] greater than _____ [23] IF YES, REJECT ☐

☐ THESE PACKAGES HAVE BEEN ORDERED OFF SALE UNDER PROVISIONS OF DIVISION 5, SECTION 12211 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☐ Distributor ☐

On ____/____/____

Disposition Not determined ☐

Packages Off Sale: (rejected)	0
Packages Accepted:	0
Packages Status Not Determined	31
Packages Weighed / Measured	12

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR

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

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/13/03	8:10 (a.m.) p.m.	SAN PABLO		5.10

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓ Packer	MAYFIELD INDUSTRIES LTD.	Address	JIMGREY, NV 88412
Distributor	SO MART DIST.	Address	18642 OLD ROCKVILLE RD, ALGOSO, CA 92216 ✓
Dealer		Address	

Brand Name: MAYFIELD — Other Identification / Code Symbols: — Date Code: — Other Code: 02-864-CDA 1

Commodity: CIDER VINEGAR — Container Description: GLASS BOTTLE, METAL SCREW TOP

$ 1.89 ☑ Package ☐ Pound — Group MLA ☐ Other ☑ 0 % — [2] Device Division ½ (0.5) FLUID DRAM — [5] Inspection Lot Size 240 — [6] Sample Size 12 — [7] Tare Sample Size (Initial) NA — [8] Unreasonable Minus Errors (UME) Allowed 0

	[1] Labeled Content or ~~Random Average Weight~~ (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (Initial tare sample) [C] - [T]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [T] Minus (-)	Plus (+)	[3] MAV from Table ☆	[4A] MLA 0,____ X Labeled Content	[4B] Adjusted MAV [3] + [4A]
	(18 FL OZ) 530 mL								0.63 fl oz 5.04 fl dr		
1.							1				
2.							1				
3.							0.5				
4.							1				
5.							1				
6.							0.5				
7.							1.5				
8.							0.5				
9.							0.5				
10.								0			
11.							0.5				
12.							1				
Total		Total of Tare Weights				Error: Total for Each Column	9	0			

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
					-9		YES: REJECT ☐ NO: Continue ☑	-0.75	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
0.3988	0.635	0.2532

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

0.0937 / 18 = 0.0052 x 100 = 0.52 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0052 x 240 x 1.89 = $ 2.36

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☐ Moisture Loss Allowance is greater than 0% ____ %

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] + [4A] IF YES, REJECT ☐

Is ____ [18] greater than ____ [23]

AND less than or equal to ____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☐ No Moisture Loss Allowance OR ☑ Moisture Loss Allowance equals 0%

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is 0.75 [18] greater than 0.253 [23] IF YES, REJECT ☑

REMARKS:

☆ 8 FLUID DR (DRAM) = 1 FLUID OUNCE

MAV = 0.63 fl oz = 5.04 fl dr

[18] AVERAGE ERROR = 0.75 fl dr = 0.0937 fl oz

☑ THESE PACKAGES HAVE BEEN ORDERED OFF SALE UNDER PROVISIONS OF DIVISION 5, SECTION 12211 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: 6/23/03

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☑ Distributor ☐ On 6/23/03

Disposition Not determined ☐

Packages Off Sale: (rejected)	240
Packages Accepted:	0
Packages Status Not Determined	0
Packages Weighed / Measured	12

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR
[signature]	Operator	[signature]	[signature]

8-60
Rev. 11/09

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6-12-03	10:10 a.m. p.m.	MISSION		9.02

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓	Packer: OAK CREEK VINEYARD	Address: 15 BORDEAUX LANE, ROCKRIDGE, CA 98801	
	Distributor: PACIFIC SPIRITS 5002	Address: COMMERS LANDING, SOUTH ADELAIDE, CA 95962	
	Dealer: VILLA OAK SPIRITS	Address: 21 BUENA VISTA, SANTA JULIA, CA 90112	✓

Brand Name: OAK CREEK — Other Identification / Code Symbols — Date Code: VINTAGE 1995 — Other Code: 32-BA-612

Commodity: CABERNET SAUVIGNON 1999 SILVER METAL — Container Description: GLASS BOTTLE, FOIL COVERED NATURAL CORK

$ 18.99 ☑ Package ☐ Pound — Group — MLA ☑ 1/4 % Other ☐ — [2] Device Division: 1mL — [5] Inspection Lot Size: 24 — [6] Sample Size: 12 — [7] Tare Sample Size (Initial): NA — [8] Unreasonable Minus Errors (UME) Allowed: 0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error [initial tare sample] [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard: [A] – [14] Random: [A] – [13] – [1] Minus (-)	Plus (+)	[3] MAV from Table	[4A] MLA 0.0025 X Labeled Content	[4B] Adjusted MAV [3] + [4A]
750 mL								22	1.875	23.875
1.						4				
2.						4				
3.						2				
4.							0			
5.						5				
6.						2				
7.						4				
8.						3				
9.						4				
10.							0			
11.						4				
12.						3				
Total	Total of Tare Weights				Error: Total for Each Column	35				

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
					-35	0	YES: REJECT ☐ NO: Continue ☑	-2.916	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
1.6213	0.635	1.0295

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

2.916 / 750 = 0.0038 x 100 = 0.38 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0038 x 24 x 18.99 = $ 1.77

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:
(1) MOISTURE LOSS STUDY - NATURAL CORK ABSORBS 1/4 % OF WINE IN BOTTLE AFTER 10 MONTHS

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☑ Moisture Loss Allowance is greater than 0% 1/4 %

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is 2.916 [18] greater than 2.904 [23] + [4A] IF YES, REJECT ☑

Is _____ [18] greater than _____ [23]

AND less than or equal to _____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☐ No Moisture Loss Allowance OR ☐ Moisture Loss Allowance equals 0%

Is _____ [18] less than or equal to _____ [23] IF YES, ACCEPT ☐

Is _____ [18] greater than _____ [23] IF YES, REJECT ☐

☑ THESE PACKAGES HAVE BEEN ORDERED OFF SALE UNDER PROVISIONS OF DIVISION 5, SECTION 12211 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☐ Distributor ☐ On ____/____/____

Disposition Not determined ☑

Packages Off Sale: (rejected)	24
Packages Accepted:	0
Packages Status Not Determined	0
Packages Weighed / Measured	12

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR
[signature]	OWNER	[signature]	[signature]

PACKAGE INSPECTION REPORT

PAGE 1 OF 2

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/5/03	10:25 a.m. p.m.	CARSON		5.03

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓ Packer: WING LEE 1818 RAFFLES BLVD, SINGAPORE 11859-001

Distributor (IMPORTER): FONG & SONS 7850 KAHALAKUA BLVD, HONOLULU, HA 99444

Dealer: A.L. WONG FOODS 684 GRACE AVE. LOS ROBLES, CA 94480 ✓

Brand Name: NIGHT FLOWER — Other Identification / Code Symbols: — Date Code: — Other Code: BFC 859-0688

Commodity: PEANUT OIL — Container Description: PRINTED RECTANGULAR METAL CAN

$ 12.99 ☑ Package ☐ Pound — Group MLA ☐ Other ☑ 0 % — [2] Device Division 0.002 LB — [5] Inspection Lot Size 870 — [6] Sample Size 24 — [7] Tare Sample Size (Initial) 2 — [8] Unreasonable Minus Errors (UME) Allowed 0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error [initial tare sample] [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Minus (-)	Plus (+)	[3] MAV from Table	[4A] MLA 0.____ X Labeled Content	[4B] Adjusted MAV [3] + [4A]
½ GAL (1.8L) ✱ 3.71 LB					4.150			1.5 fl oz 0.0869 LB		
1.	4.112	0.442	3.670	-0.040		0.038				
2.	4.070	0.438	3.632	-0.078		0.080				
3.	4.192	0.438					0.042			
4.	4.108	0.442				0.042				
5.	4.188						0.038			
6.	4.088					0.062				
7.	4.238						0.088			
8.	4.064					0.086				
9.	4.068					0.082				
10.	4.196						0.046			
11.	4.144					0.006				
12.	4.128					0.022				
Total	Total of Tare Weights	1.76			Error: Total for Each Column	0.418	0.214	TOTAL PAGE 1 =		-0.204

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
0.038	0.004	9.5	4	0.440	-0.534	0	YES: REJECT ☐ NO: Continue ☑	-0.0222	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
0.0487	0.422	0.0205

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

0.0222 / 3.71 = 0.00598 x 100 = 0.59 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.00598 x 870 x 12.99 = $ 67.62

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:
✱ ½ GAL OIL = 3.71 LB
MAV FROM TABEL = 1.5 fl oz = 0.0869 LB

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☐ Moisture Loss Allowance is greater than 0% ____ %

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] + [4A] IF YES, REJECT ☐

Is ____ [18] greater than ____ [23] AND less than or equal to ____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☐ No Moisture Loss Allowance OR ☑ Moisture Loss Allowance equals 0%

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is 0.0222 [18] greater than 0.0205 [23] IF YES, REJECT ☑

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DISPOSITION: Date: 6 / 10 / 03
Corrected and Released ☐ Destroyed ☐
Shipped to: Packer ☐ Distributor ☑
On 6 / 20 / 03
Disposition Not determined ☐

Packages Off Sale: (rejected) 870
Packages Accepted: 0
Packages Status Not Determined 0
Packages Weighed / Measured 24

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OWNER OR AGENT	TITLE	SEALER	INSPECTOR
A.L. Wong	Owner	Carla Contreras	B Barlow

8-62
Rev. 11/09

PAGE 2 OF 2

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/5/03	10:25 a.m. p.m.	CARSON		5.03

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓	Packer WING LEE	Address	
	Distributor	Address	
	Dealer A.L. WONG	Address	✓

Brand Name NIGHT FLOWER — Other Identification / Code Symbols — Date Code — Other Code 6FC 859-0688

Commodity PEANUT OIL — Container Description

$ ☐ Package ☐ Pound — Group MLA ☐ Other ☐ % — [2] Device Division 0.002 LB — [5] Inspection Lot Size 870 — [6] Sample Size — [7] Tare Sample Size (Initial) — [8] Unreasonable Minus Errors (UME) Allowed

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (initial tare sample) [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] - [14] Random [A] - [13] - [1] Minus (-)	Plus (+)	[3] MAV from Table	[4A] MLA 0____ X Labeled Content	[4B] Adjusted MAV [3] + [4A]
3.71 LB					4.150					
1.	4.112					0.038				
2.	4.070					0.080				
3.	4.088					0.062				
4.	4.094					0.056				
5.	4.178						0.028			
6.	4.154						0.004			
7.	4.134					0.016				
8.	4.166						0.016			
9.	4.064					0.086				
10.	4.108					0.042				
11.	4.158						0.008			
12.	4.144					0.006				
Total	Total of Tare Weights				Error: Total for Each Column	0.386	0.056	TOTAL PAGE 2 = −0.33		

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]? YES: REJECT ☐ NO: Continue ☐	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus? YES: ACCEPT LOT ☐ NO: Go to [21] ☐

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

____ / ____ = ____ x 100 = ____ %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

____ x ____ x ____ = $ ____

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

REMARKS:

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☐ Moisture Loss Allowance is greater than 0% ____ %

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] + [4A] IF YES, REJECT ☐

Is ____ [18] greater than ____ [23]

AND less than or equal to ____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☐ No Moisture Loss Allowance OR ☐ Moisture Loss Allowance equals 0%

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] IF YES, REJECT ☐

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DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☐ Distributor ☐

On ____/____/____

Disposition Not determined ☐

Packages Off Sale: (rejected) 1

Packages Accepted: SEE PAGE 1

Packages Status Not Determined ____

Packages Weighed / Measured ____

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OWNER OR AGENT	TITLE	SEALER	INSPECTOR

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
A	6/22/03	4:10 (a.m.) p.m.	KLAMATH		12.02

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

✓ Packer	TITAN FOUNDRY	Address	7181 N. MEADOWVIEW RD, PARKFIELD RD, UT 80101
Distributor	BC TRADING	Address	SMITHVILLE, NV 89402
Dealer	HERBERT HARDWARE	Address	800 MAIN ST, WIEST, CA 99116 ✓

Brand Name	Other Identification / Code Symbols	Date Code	Other Code
TITAN		NONE	NONE

Commodity	Container Description
8X 2¼ WOODSCREWS	PAPERBOARD BOX

$	Package / Pound	Group	MLA / Other	%	[2] Device Division	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Initial)	[8] Unreasonable Minus Errors (UME) Allowed
6.49	☑ Package ☐ Pound		☐ / ☑		0.01oz	102	12	2	0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error [Initial tare sample] [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Minus (-)	Plus (+)	[3] MAV from Table	[4A] MLA 0.___ X Labeled Content	[4B] Adjusted MAV [3] + [4A]
96 COUNT 12.48oz					12.93			3 = 0.39oz		
1.	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						0.02			
6.	13.16						0.23			
7.	12.76					0.17				
8.	12.58					0.35				
9.	12.84					0.09				
10.	12.70					0.23				
11.	12.59					0.34				
12.	12.97						0.04			
Total	Total of Tare Weights				Error: Total for Each Column	1.37	0.48			

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio of Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[15] Total Error	[16] Number of UME's	[17] Is [16] greater than [8]?	[18] Average Error ([15] / [6])	[20] Is [18] Zero or Plus?
0.13	0	∞	2	0.45	-0.89	0	YES: REJECT ☐ NO: Continue ☑	-0.0741	YES: ACCEPT LOT ☐ NO: Go to [21] ☑

[21] Computed Standard Deviation of Sample Errors	[22] Sample Correction Factor (Table 2 – 1, Col. 3)	[23] Sample Error Limit (SEL) [21] x [22]
0.1842	0.635	0.1170

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

0.0741 / 12.48 = 0.0059 x 100 = 0.59 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0059 x 102 x 6.49 = $ 3.93

* IF PRICED PER POUND: USE PRICE PER POUND X RANDOM AVERAGE WEIGHT (RA)

REMARKS:

*1 contains 95 screws, net 12.35 = 0.13 oz/unit

*2 contains 96 screws, Net 12.48 = 0.13oz/unit

[24] AVERAGE ERROR [18] IS MINUS (Use the absolute value of [18] for these determinations)

MLA ☐ Moisture Loss Allowance is greater than 0% ____ %

Is ____ [18] less than or equal to ____ [23] IF YES, ACCEPT ☐

Is ____ [18] greater than ____ [23] + [4A] IF YES, REJECT ☐

Is ____ [18] greater than ____ [23]

AND less than or equal to ____ [23] + [4A] IF YES, COMMODITY IS IN THE GREY AREA, STATUS NOT DETERMINED. ☐

OTHER ☑ No Moisture Loss Allowance OR ☐ Moisture Loss Allowance equals 0%

Is 0.0741 [18] less than or equal to 0.117 [23] IF YES, ACCEPT ☑

Is ____ [18] greater than ____ [23] IF YES, REJECT ☐

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DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Shipped to: Packer ☐ Distributor ☐

On ____/____/____

Disposition Not determined ☐

Packages Off Sale: (rejected)	0
Packages Accepted:	102
Packages Status Not Determined	0
Packages Weighed / Measured	12

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OWNER OR AGENT	TITLE	SEALER	INSPECTOR

PAGE 1 OF 2

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
B	6/11/03	8:20 a.m. p.m.	GOLDEN		4.50

INSPECTION LOCATION AND PARTY RESPONSIBLE FOR NET CONTENTS

Packer: SCHULTZ SAUSAGE CO. EST 101 Address: HCR 56, BRYSON, CA 93001

Brand Name: SCHULTZ | Other Identification / Code Symbols | Date: 9/20'03 | Other: 03A-11960Z

Commodity: OLD FASHIONED BEEF FRANKS | Container Description: PAPERBOARD BOX, PAPER LINER

$	[2] Device Division	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Initial)	[8] Unreasonable Minus Errors (UME) Allowed
14.99 ☑ Package ☐ Pound	0.002 LB	4,800	30	5	0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (initial tare sample) [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Minus (-)	[E] Package Error Plus (+)	[3] Maximum Allowable Variation (MAV) from table
12 LBS					12.252			1% = 0.12
1.	12.190	0.252	11.938	-0.062		0.062		
2.	12.290	0.252	12.038	+0.038			0.038	
3.	12.258	0.254	12.004	+0.004			0.006	
4.	12.254	0.252	12.002	+0.002			0.002	
5.	12.300	0.254	12.046	+0.046			0.048	
6.	12.196					0.056		
7.	12.272						0.020	
8.	12.244					0.008		
9.	12.276						0.024	
10.	12.156					0.096		
11.	12.294						0.042	
12.	12.304						0.052	
13.	12.338						0.086	
14.	12.224					0.028		
15.	12.330						0.078	
TOTAL	Total of Tare Weights	1.264			Error: Total for Each Column	0.250	0.396	Total ΣE = +0.146

Average Error [18] / Labeled Contents [1] = ☆ x 100 = %

_____ / _____ = _____ x 100 = _____ %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

_____ x _____ x _____ = $ _____

* IF PRICED PER POUND: USE PRICE PER POUND x LABELED CONTENTS

[9] Rc - Range of Errors(See [D])	[10] Rt - Range of Tare Weights. (See [B])	[11] Ratio of Rc / Rt [9] / [10]
0.108	0.002	54

[12] Total Number of Tare: nt (Table 2 – 4)	[13] Average Tare Weight	[15] Total Error	[16] Number of Unreasonable Minus Errors (UME's)
5	0.252	+0.078	1

REMARKS:

[17] Is [16] greater than [8] ?	[18] Average Error ([15] / [6])	[19] Is [18] Zero or Plus?
YES: REJECT ☑ NO: Continue ☐	+0.0026	YES: ACCEPT LOT ☐ NO: REJECT LOT ☐

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DISPOSITION: Date: 6 / 11 / 03

Corrected and Released ☑ Destroyed ☐

Disposition Not determined ☐

Packages Off Sale: (rejected) 4800

Packages Accepted: 0

Packages Weighed / Measured 30

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OWNER OR AGENT	TITLE	SEALER	INSPECTOR
James Johnson	Plant Mgr	R Gordon	Fred Weimer

PAGE 2 OF 2

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
B	6/11/03	8:20 (a.m.) p.m.	GOLDEN		4150

INSPECTION LOCATION AND PARTY RESPONSIBLE FOR NET CONTENTS

Packer	Address
SCHULTZ	

Brand Name	Other Identification / Code Symbols	Date	Other
SCHULTZ		9/20'03	03A-119602

Commodity	Container Description
OLD FASHIONED BEEF FRANKS	

$	☐ Package ☐ Pound	[2] Device Division	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Initial)	[8] Unreasonable Minus Errors (UME) Allowed
			4,800			0

	[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (Initial tare sample) [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Minus (-)	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Plus (+)	[3] Maximum Allowable Variation (MAV) from table
	12 LBS					12.252			
1.		12.148					0.104		
2.		12.120					0.132		
3.		12.316						0.064	
4.		12.326						0.074	
5.		12.330						0.078	
6.		12.234					0.018		
7.		12.274						0.022	
8.		12.314						0.062	
9.		12.284						0.032	
10.		12.284						0.032	
11.		12.300						0.048	
12.		12.274						0.022	
13.		12.154					0.098		
14.		12.210					0.042		
15.		12.144					0.108		
TOTAL		Total of Tare Weights				Error: Total for Each Column	0.502	0.434	TOTAL 62 -0.068

Average Error [18] / Labeled Contents [1] = ☆ x 100 = %

_____ / _____ = _____ x 100 = _____ %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

_____ x _____ x _____ = $ _____

* IF PRICED PER POUND: USE PRICE PER POUND x LABELED CONTENTS

[9] Rc - Range of Errors(See [D])	[10] Rt - Range of Tare Weights. (See [B])	[11] Ratio of Rc / Rt [9] / [10]

[12] Total Number of Tare: nt (Table 2 – 4)	[13] Average Tare Weight	[15] Total Error	[16] Number of Unreasonable Minus Errors (UME's)

REMARKS:

[17] Is [16] greater than [8] ?	[18] Average Error ([15] / [6])	[19] Is [18] Zero or Plus?
YES: REJECT ☐		YES: ACCEPT LOT ☐
NO: Continue ☐		NO: REJECT LOT ☐

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DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Disposition Not determined ☐

Packages Off Sale: (rejected) _____

Packages Accepted: SEE PAGE 1

Packages Weighed / Measured _____

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR

8-66
Rev. 11/09

PAGE 1 OF 2

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
B	6/12/03	7:55 a.m. p.m.	MISSION		4.50

INSPECTION LOCATION AND PARTY RESPONSIBLE FOR NET CONTENTS

Packer	Address
CRANDALL FARMS	256 EAST ST GLOSTER, CA 95665

Brand Name	Other Identification / Code Symbols	Date	Other
WEST RIDGE FARMS		Sell By 7-02-03	

Commodity	Container Description
WHOLE BODY CHICKEN	PLASTIC BAG, METAL CLIP, SOAKER

$	[2] Device Division	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Initial)	[8] Unreasonable Minus Errors (UME) Allowed
0.69 ☐ Package ☑ Pound	0.002 LB	840	30	5	0

[1] Labeled Content or Random Average Weight (RA)	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (initial tare sample) [C] - [1]	[14] Nominal Gross Weight [1] + [13]	[E] Package Error Standard [A] – [14] Random [A] – [13] – [1] Minus (-)	[E] Package Error Plus (+)	[3] Maximum Allowable Variation (MAV) from table
RA 2.810 LB								
1. 2.58	2.684	0.122	2.562	-0.018		0.020		
2. 2.65	2.748	0.126	2.622	-0.028		0.026		
3. 3.10	3.182	0.122	3.060	-0.040		0.042		
4. 2.46	2.610	0.124	2.486	+0.026			0.026	
5. 3.09	3.228	0.126	3.102	+0.012			0.014	
6. 2.86	2.972					0.012		
7. 2.75	2.842					0.032		
8. 3.04	3.170						0.006	
9. 3.15	3.274						0	
10. 2.96	3.074					0.010		
11. 2.74	2.860					0.004		
12. 2.98	3.112						0.008	
13. 2.66	2.772					0.012		
14. 2.34	2.466						0.002	0.062
15. 2.54	2.646					0.018		
TOTAL PG 1 41.90	Total of Tare Weights	0.620			Error: Total for Each Column	0.176	0.056	TOTAL PG 1 -0.12

Average Error [18] / Labeled Contents [1] = ☆ x 100 = %

0.0089 / 2.81 = 0.0031 x 100 = 0.31 %

☆ x Lot Size [5] x Price Per Package* = Total $ Value

0.0031 x 840 x 0.69 x 2.81 = $ 5.15

* IF PRICED PER POUND: USE PRICE PER POUND x LABELED CONTENTS

[9] Rc - Range of Errors (See [D])	[10] Rt - Range of Tare Weights. (See [B])	[11] Ratio of Rc / Rt [9] / [10]
0.066	0.004	16.5

[12] Total Number of Tare: nt (Table 2 – 4)	[13] Average Tare Weight	[15] Total Error	[16] Number of Unreasonable Minus Errors (UME's)
5	0.124	-0.268	0

REMARKS:

[17] Is [16] greater than [8] ?	[18] Average Error ([15] / [6])	[19] Is [18] Zero or Plus?
YES: REJECT ☐ NO: Continue ☑	-0.0089	YES: ACCEPT LOT ☐ NO: REJECT LOT ☑

☑ THESE PACKAGES HAVE BEEN ORDERED OFF SALE UNDER PROVISIONS OF DIVISION 5, SECTION 12211 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: 6/12/03

Corrected and Released ☑ Destroyed ☐

Disposition Not determined ☐

Packages Off Sale: (rejected) 840

Packages Accepted: 0

Packages Weighed / Measured 30

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR
[signature]	Operator	[signature]	[signature]

PAGE 2 OF 2

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report / OSO #	Insp. Type	Est. Type	Commodity No.
B	6-12-01	7:55 (am) pm	MISSION		2	0110	4.50

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

Packer	Address	✓
✓ CRANDALL FARMS		

Brand Name	Other Identification - Code Symbols	Date	Other
WEST RIDGE FARMS		SELL BY 7-02-01	

Commodity	Container Description
WHOLE BODY CHICKEN	

$		[2] Unit of Measure	[5] Inspection Lot Size	[6] Sample Size	[7] Tare Sample Size (Init.)	[8] Unreas. Minus Err. (UME) Allowed
0.39	☐ Package ☒ Pound	0.001 LB	840			

	[1] Labeled Cont. or Random Avg.	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[13] Avg. Tare	[14] Nom. Gross Weight [1] + [13]	[D] Package Error Std. A - [14] Rdm. A - [13] - [1]	[E] Error -	[E] Error +	[3] MAV from table	[4] MAV in UOM
	RA 2.81				0.124						
1.	2.71	2.818					-0.016	16			
2.	2.83	2.942					-0.012	12			
3.	2.79	2.918					+0.004		4		
4.	2.93	3.046					-0.008	8			
5.	3.12	3.226					-0.018	18			
6.	3.04	3.142					-0.022	22			
7.	2.85	2.976					+0.002		2		
8.	2.97	3.080					-0.014	14			
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		
13.	3.01	3.138					+0.004		4		
14.	2.99	3.096					-0.018	18			
15.	2.44	2.552					-0.012	12			
TOTAL	84.32	STANDARD: Range of Net Weights			RANDOM: Range of Errors			164	16		

Avg. Err. [19] / Labeled Cont. [1] = ☆ x 100 = % Err.

_____ / _____ = _____ x 100 = _____ %

☆ x Lot Size [5] x Price Per Pkg.* = Total $ Value

_____ x _____ x _____ = $ _____

* IF PRICED PER POUND: USE PRICE PER POUND X LABELED CONTENTS

[9] Std. Range of [C] Rdm. Range of [D]	[10] Range of Tare Wts. Rt (See [B])	[11] Ratio of Rc / Rt [9] / [10]

12] Total no. of Tare nt (Table 2 - 4)	[15] Total Error	[16] No. of UME's	[17] Is [16] greater than [8] ?
			YES: REJECT ☐ NO: Continue

[18] Average Error ([15] / [6])	[19] Avg. Error in Labeled Units ([18] x [2])	[20] Is [19] Zero or Plus?
		YES: Accept Lot ☐ NO: Reject Lot ☐

REMARKS:

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DO NOT MOVE, TRANSPORT, COMMINGLE OR DISPOSE OF WITHOUT WRITTEN AUTHORIZATION.

DISPOSITION: Date: ____/____/____

Corrected and Released ☐ Destroyed ☐

Not determined ☐

Packages Off Sale: (rejected) _____

Packages Accepted: SEE PAGE 1

Packages Weighed / Measured _____

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OWNER OR AGENT	TITLE	SEALER	INSPECTOR

PACKAGE INSPECTION REPORT

CATEGORY	Date	Time	COUNTY	Report # or Off Sale Order #	Commodity Number
C	6/7/03	2:10 a.m. / p.m. (p.m. circled)	OCEANSIDE		17.40

CHECK PARTY RESPONSIBLE FOR NET CONTENTS — INSPECTED AT

Check	Party	Name	Address	Inspected at
✓	Packer	RL. ROBINS NOVELTIES	RANCHO HONDO, CA 90112	
	Distributor	G & L SPECIALITIES	460 ELLIS DR, SAN GEORGIO, CA 91164	
	Dealer	HENRIKSON'S	16 GREENTREE MALL, WEST BIMORE, CA 95122	✓

Brand Name: BELLE NOEL — Other Identification / Code Symbols: Date Code: NONE — Other Code: NONE

Commodity: GLASS CHRISTMAS TREE ORNAMENTS — Container Description: PAPERBOARD BOX, PLASTIC TRAY

$ Per Package	[2] Device Division	[4] Weight per Unit	[5] Inspection Lot Size	[6] Sample Size, Table 5-1	[7] Initial Tare Sample Size, Table 5-1	[8] Number Under-count Packages Allowed, Table 5-1	[8A] Maximum Allowable Variation (MAV), Table 2-7
$24.99			510	24	NA	2	1

[1] Labeled Content: 36

#	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[D] Error (initial tare sample) [C] - [1]	[E] Package Error By Weight ([A] - [14]) / [4] Minus (-)	Plus (+)
1.						0
2.						0
3.						0
4.					(3)	
5.						0
6.						0
7.						0
8.						0
9.						0
10.						0
11.						0
12.						0
	Total of Tare Weights			Error: Total for Each Column	3	0

#	[A] Gross Weight	[B] Tare Weight	[C] Net Weight [A] - [B]	[E] Package Error By Weight ([A] - [14]) / [4] Minus (-)	Plus (+)
13.					0
14.					0
15.					0
16.					0
17.					0
18.				1	
19.					0
20.					0
21.					0
22.					1
23.					0
24.					0
	Total of Tare Weights		Error: Total for Each Column	1	1

[9] Rc - Range of Errors [D]	[10] Rt Range of Tare Weights [B]	[11] Ratio Rc / Rt [9] / [10]	[12] Total Number Tare (Table 2 – 3)	[13] Average Tare Weight	[14] Nominal Gross Weight [1] + [13]	[15] Total Error	[16] Number Under-count Packages *	[17] Is [16] greater than [8]?	[18] Average Error [15] / [6]
/	/	/	/	/	/	-3	2	YES: REJECT ☐ NO: ACCEPT lot ☑ Reject MAV's and Compute [18]	-0.125

Average Error [18] / Labeled Content [1] = ☆ x 100 = % Error

0.125 / 36 = 0.00347 x 100 = 0.34 %

☆ x Lot Size [5] x Price Per Package = Total $ Value

0.00347 x 510 x 24.99 = $ 44.25

* [16] To be considered undercount, the individual package error must be -1 or more. Ignore any decimal values, do not round.

REMARKS:

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DISPOSITION: Date: 6 / 7 / 03
Corrected and Released ☐ Destroyed ☑
Shipped to Packer ☐ Distributor ☐
On ____/____/____
Disposition Not Determined ☐

Packages Off Sale: (rejected) 1
Packages Accepted: 509
Packages Weighed / Measured 24

I HAVE RECEIVED A COPY OF THIS REPORT AND HAVE BEEN GIVEN THE OPPORTUNITY TO REVIEW THE DATA.

OWNER OR AGENT	TITLE	SEALER	INSPECTOR
[signature]	[signature]	[signature]	[signature]

49-003 (Rev. 7/03) DEPARTMENT OF FOOD AND AGRICULTURE - DIVISION OF MEASUREMENT STANDARDS C

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.)

#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.**

5, page 8-59, Mayfield Cider Vinegar

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 ÷ 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 lb

3.71 lb ÷ 64 fl oz = 0.0579 lb per fluid ounce

MAV = 1.5 fluid ounces (from table)

MAV in terms of weight: 1.5 fl oz x 0.0579 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 ÷ 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 ÷ 96 = 0.13 oz

Labeled content by weight is 96 x 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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