



CALIFORNIA DEPARTMENT OF
FOOD & AGRICULTURE

Extracts from the
CALIFORNIA CODE OF REGULATIONS
TITLE 4, DIVISION 9

WEIGHTS AND MEASURES FIELD REFERENCE MANUAL (2018)

Field Reference Manual Table of Contents

Field Reference Manual Revision Index
NIST Handbook 44 Amendments
NIST Handbook 44 Editorial Changes
NIST Handbook 130 UPLR Amendments
NIST Handbook 130 Editorial Changes
NIST Handbook 133 Amendments
NIST Handbook 133 Editorial Changes



CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
DIVISION OF MEASUREMENT STANDARDS

DISCLAIMER

This document represents the Division of Measurement Standards' field manual for enforcing regulations pertaining to weights and measures in California. This field manual is not to be considered as the official Code of Regulations, as published by Barclays Law Publishers.

To find the latest online version of the California Code of Regulations (CCR) Title 4, Division 9, visit the California Office of Administration Law (OAL) at:

<http://ccr.oal.ca.gov/linkedslice/default.asp?SP=CCR-1000&Action=Welcome>

The CCR may also be accessed at <http://oal.ca.gov/> by selecting the link Titled "California Code of Regulations" under the list of "Sponsored Links" in the left column on the OAL Home page.

For information concerning the contents of this document, please contact the Division of Measurement Standards by e-mail at dms@cdfa.ca.gov.

REFERENCED PUBLICATIONS

NIST Handbook 44 (2017 Edition) - Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices as adopted by the 101st National Conference on Weights and Measures in July 2016 is available at:

<https://www.nist.gov/pml/weights-and-measures/publications/nist-handbooks/handbook-44>

NIST Handbook 130 (2018 Edition) - Uniform Laws and Regulations in the Areas of Legal Metrology and Engine Fuel Quality as adopted by the 101st National Conference on Weights and Measures in July 2016 is available at:

<https://www.nist.gov/pml/weights-and-measures/publications/nist-handbooks/handbook-130>

NIST Handbook 133 (2018 Edition) - Checking the Net Contents of Packaged Goods as adopted by the 102nd National Conference on Weights and Measures in July 2017 is available at:

<https://www.nist.gov/pml/weights-and-measures/publications/nist-handbooks/handbook-133>

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**FIELD REFERENCE MANUAL
CALIFORNIA CODE OF REGULATIONS - TITLE 4, DIVISION 9**

**Division of Measurement Standards
Department of Food and Agriculture**

Table of Contents

Chapter 1. Tolerances and Specifications for Commercial Weighing and Measuring Devices

Article 1. National Uniformity, Exceptions and Additions

Sections 4000. – 4002.9. National Uniformity and California Type Evaluation Fees

Handbook 44 Introduction.

Section 1.10. General Code

Section 2.20. Scales **AMENDED**

Section 2.21. Belt Conveyor Scale Systems

Section 2.22. Automatic Bulk Weighing Systems

Section 2.23. Weights

Section 2.24. Automatic Weighing Systems

Section 2.25. Weigh-in-Motion Systems Used for Vehicle Enforcement Screening– Tentative Code

Section 3.30. Liquid-Measuring Devices **AMENDED**

Section 3.31. Vehicle-Tank Meters **AMENDED**

Section 3.32. Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices **AMENDED**

Section 3.33. Hydrocarbon Gas Vapor-Measuring Devices

Section 3.34. Cryogenic Liquid-Measuring Devices

Section 3.35. Milk Meters **AMENDED**

Section 3.36. Water Meters **AMENDED**

Section 3.37. Mass Flow Meters **AMENDED**

Section 3.38. Carbon Dioxide Liquid–Measuring Devices

Section 3.39. Hydrogen Gas–Measuring Devices

Section 3.40. Electric Vehicle Fueling Systems – Tentative Code

Section 4.40. Vehicle Tanks Used as Measures

Section 4.41. Liquid Measures

Section 4.42. Farm Milk Tanks

Section 4.43. Measure-Containers

Section 4.44. Graduates

Section 4.45. Dry Measures

Section 4.46. Berry Baskets and Boxes

Section 5.50. Fabric-Measuring Devices

Section 5.51. Wire- and Cordage-Measuring Devices

Section 5.52. Linear Measures

Section 5.53. Odometers

Section 5.54. Taximeters **AMENDED**

Section 5.55. Timing Devices

Section 5.58. Multiple Dimension Measuring Devices **AMENDED**

Table of Contents – Continued:

Section 5.59. Electronic Livestock, Meat, and Poultry Evaluation Systems and/or Devices

Section 5.60. Transportation Network Measurement Systems – Tentative Code **NEW**

Handbook 44 Appendices

Appendix A. Fundamental Considerations

Appendix B. Units and Systems of Measurement

Appendix C. General Tables of Units of Measurement

Appendix D. Definitions **AMENDED**

Article 2. Specifications and Tolerances and Other Technical Requirements for Commercial Weighing and Measuring Devices Not Included in Handbook 44

Article 2.1. Liquefied Petroleum Gas Tanks When Mounted on Highway Vehicles and Used as Measures

Article 2.2. Electric Watt-Hour Meters

Article 2.3. Carbon Dioxide Liquid Measuring Devices

Chapter 2. Special Equipment

Article 1. Compressed Gas in Cylinders

Article 2. Procedures for Type Approval and Field Compliance Testing of Vapor Recovery Systems

Chapter 3. Device Inspection

Article 1. Frequency of Inspection

Article 2. Alternatives to Specified Frequency of Inspection

Article 3. Annual Device Administrative Fee

Chapter 4. Registered Service Agencies

Chapter 5. Sub-meter Billing for Utility Services

Chapter 6. Automotive Products Specifications

Article 1. Brake Fluid Standards

Article 2. Brake Fluid Labeling - **4110-4111 Repealed 11-19-85**

Article 3. Automatic Transmission Fluid Standards - **4120-4126 Repealed 8-18-87**

Article 4. Automatic Transmission Fluid Registration - **4130 Repealed 11-19-85**

Article 5. Engine Fuel Standards

Article 6. Engine Oil Labeling and Exemptions

Article 7. Labeling and Specifications of Antifreezes and Coolants

Article 8. Hydrogen

Article 9. Specifications for Dimethyl Ether Used as a Motor Vehicle Fuel

Chapter 7. Advertising of Gasoline and Other Motor Vehicle Fuels

Chapter 8. Motor Oil Fee

Chapter 9. Weighmaster Enforcement

Article 1. General Provisions

Article 2. Weighmaster Certificates

Article 3. Predetermined Individual Tare Weights

Article 4. Seasonal Tare Weights

Article 5. Common Tare Weights

Article 6. Limits of Permissible Error

Table of Contents – Continued:

Article 7. Average Tare Weights

Article 8. Volumetric Conversion to Weight of Squid

Article 9. Director's Approval of Inspection of Weighmaster Records

Article 10. Timber Tare Weights

Article 11. Multiple Draft Weighing Operations

Article 12. Unattended Weighing Systems

Chapter 10. Quantity Control

Article 1. General

Introduction

Article 2. Uniform Packaging and Labeling Regulation

Appendix A. SI/U.S. Customary Conversion Factors

Appendix B. Converting U.S. Customary Units to SI Units

Article 3. Wood for Fuel Purposes and CHAPTER 11. Section 4600. National Uniformity, NIST Handbook 133 Paragraph 3.14. Firewood – Volumetric Test Procedure for Packaged Firewood with a Labeled Volume of 113 L [4 ft³] or Less and Stacked Firewood Sold by the Cord or Fractions of a Cord.

Chapter 11. Sampling and Testing Procedures for Determining the Net Contents of Packaged Commodities.

AMENDED

Chapter 12. Administration

Article 1. Permit Reform Act

Article 2. Weights and Measures Penalty Guidelines

2018
Division of Measurement Standards
Field Reference Manual Revision Index

Revised Sections

[Cover Page](#)
[Disclaimer Page](#)

[Revision Index](#)
[Table of Contents](#)

NO REGULATIONS ADDED or AMENDED DURING 2017

See the **2018 Field Reference Manual Revision Index** for changes to the language in
NIST Handbooks 44, 130 and 133.

NEW: NIST Handbook 133-2018 (current edition) is now part of the 2018 Field Reference Manual CCR Chapter 11, §4600. National Uniformity.

2017
Division of Measurement Standards
Field Reference Manual Revision Index

Revised Sections

NO REGULATIONS ADDED or AMENDED DURING 2016

Changes to the language in NIST Handbooks 44, 130 and 133 follow the 2017 Field Reference Manual Revision Index

Editor's Note: CCR Title 4. Division 9. Article 10. Chapter 3. Wood for Fuels Purposes is no longer published in the Field Reference Manual. BPC Section 12211 superseded the CCR when language was added in 1996/1997 stating that the secretary shall adopt by reference the package checking procedures recommended by the National Conference on Weights and Measures and published in the current edition of the National Institute of Standards and Technology (NIST) Handbook 133, "Checking the Net Contents of Packaged Goods".

NEW: NIST Handbook 133-2017 (current edition) is now part of the 2017 Field Reference Manual CCR Chapter 11, §4600. National Uniformity.

NIST Handbook 44 Amendments for the 2018 Edition

The following table lists the codes, paragraphs, and pages in which the 102nd National Conference on Weights and Measures made amendments. In the column headed "Action," changes are noted as "added," "amended," "deleted," or "renumbered." Each code, section, or paragraph that has been changed will be noted as "Added 2017" or "Amended 2017."

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	HB-44 PAGE
2.20.	Scales	3200-2	S.1.2.2.2. Class I and II Scales Used in Direct Sales.	Added	2-9
			S.1.2.2.2. Class III and IIII Scales.	Renumbered to S.1.2.2.3.	2-9
3.30.	Liquid-Measuring Devices	3300-1	S.2.1. Air/Vapor Elimination.	Amended	3-12
			S.2.1.1. Air/Vapor Elimination on Loading Rack Measuring Systems.	Amended	3-12
3.31.	Vehicle-Tank Meters	3301-1	S.2.1. Vapor Elimination.	Amended	3-34
		3301-3	S.5.7. Meter Size.	Deleted	3-38
3.32.	Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices	3302-3	N.4.2.3. Wholesale Devices.	Amended	3-56
3.35.	Milk Meters	3305-1	S.2.1. Air/Vapor Elimination.	Amended	3-89
3.36.	Water Meters	3306-1	S.2.2. Batching Measuring Systems Only.	Amended Title	3-99
			S.2.2.1. Air/Vapor Elimination, Batching Measuring Systems.	Amended	3-99
3.37.	Mass Flow Meters	3307-1	S.3.3. Air/Vapor Elimination.	Amended	3-110
			S.3.3.1. Air/Vapor Elimination on Loading Rack Liquid Measuring Systems.	Amended	3-110
5.54	Taximeters	3504-1	A.2. Exceptions.	Amended	5-27
			S.1.2.1. Time Mechanism.	Added	5-28
			S.1.2.2. Distance Mechanism.	Added	5-28
			S.1.3. Visibility of Indications.	Reorganized into title (S.1.3.) and new subparagraph S.1.3.1. and Amended	5-28
			S.1.3.1. Minimum Height of Figures, Words, and Symbols.	Renumbered to S.1.3.2.	5-28
			S.1.3.2. Lighting of Indications.	Deleted	5-28
			S.1.3.3. Passenger's Indications.	Amended	5-28
S.1.4. Actuation of Fare-Indicating Mechanism.	Amended	5-29			

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	HB-44 PAGE
5.54 (Continued)	Taximeters (continued)	3504-1 (continued)	S.1.5.3. Distance Not Recording.	Added	5-29
			S.1.9. Recorded Representation.	Amended	5-29
			S.2.1. Initial Time and Distance Intervals.	Amended	5-31
			S.4. Interference.	Amended	5-31
			S.5. Provision for Security Seals.	Amended	5-31
			Table S.5. Categories of Device and Methods of Sealing	Added	5-32
			S.5.1. Taximeter Connected to Networked Systems.	Added	5-33
			S.5.2. Taximeters Calibrated to Specific Values.	Added	5-33
			S.7. Measurement Signal Loss.	Added	5-33
			S.7.1. Intermittent Trip Data Loss.	Added	5-33
			S.7.2. Significant Trip Data Loss.	Added	5-33
			S.7. Anti-Fraud Provisions, Electronic Taximeters.	Renumbered to S.8. and Amended	5-34
			N.1.1. Test Methods.	Amended	5-34
			N.1.2.1. Taximeters Using Measurement Data Sources from Other Than Rotation of the Wheels; N.1.2.1.1. Testing, General; and N.1.2.1.2. Repeatability Testing, Taximeters Using Measurement Data Sources Other Than Rotation of Wheels.	Added	5-34
			N.1.3.1. Measurement Data Based on the Rotation of the Vehicle's Wheels.	Added	5-35
			N.1.3.1. Vehicle Lading.	Renumbered to N.1.3.1.1.	5-35
			N.1.3.2. Tire Pressure.	Renumbered To N.1.3.1.2.	5-35
			N.1.3.2. Taximeters Using Other Measurement Data Sources.	Added	5-35
			N.1.3.2.1. Roads.	Added	5-35
			N.1.3.2.2. Testing for Environmental Influences.	Added	5-35
N.3. Interference Test.	Amended	5-35			
T.1.3. On Interference Tests and T.1.3.1. (untitled)	Amended and Merged into T.1.3.	5-36			

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	HB-44 PAGE
5.54 (Continued)	Taximeters (continued)	3504-1 (continued)	T.2. Tests Using Transfer Standards.	Added	5-36
			UR.1. Inflation of Vehicle Tires.	Amended	5-37
			UR.2. Position and Illumination of Taximeter.	Amended	5-37
5.58.	Multiple Dimension Measuring Devices	3508-1	S.1.7. Minimum Measurement.	Amended	5-79
			S.1.8. Indications Below Minimum and Above Maximum.	Amended	5-79
5.60.	Transportation Network Measurement Systems – Tentative Code	3600-6	New Code	Added	5-93
Appendix D	Definitions	3504-1	location services	Added	D-16

NIST Handbook 44 Editorial Changes for the 2018 Edition

SECTION	CODE	PARAGRAPH	ACTION	HB-44 PAGE
3.32.	LPG and Anhydrous Ammonia Liquid-Measuring Devices	S.1.4.1.(a)	Corrected “electric” to “electronic”	3-49
		S.1.6.1. Travel of Indicator.	Corrected 5 L to <u>4 L</u> (1 gal)	3-52
5.54.	Taximeter	S.1.9.1. Multiple Recorded Representations and S.1.9.1.1. Duplicate Receipts.	Combined S.1.9.1. (a heading only) with paragraph S.1.9.1.1. into a single paragraph titled S.1.9.1. Multiple Recorded Representations – Duplicate Receipts.	5-30
Appendix C.	General Tables of Units of Measure	Section 4. Tables of Units of Measurement	Reformatted tables in Section 4 and added instructions on table use.	C-8
			Added Units of Length – Thickness Measurement	C-8
			Added Units of Pressure	C-15
			Added Conversion Equations for Temperature	C-15
		Section 5. Tables of Equivalents/Units of Length	Added 1 mil = (25.4 micrometers (exactly))	C-16

NIST Handbook 130 Amendments for the 2018 Current Edition

The following table lists the laws and regulations amended by the 102nd (2017) National Conference on Weights and Measures (NCWM). As appropriate, the text on the cited pages indicates the changes to the law or regulation, section, or paragraph as “Added 2017” or “Amended 2017.” Unless otherwise noted, the effective date of the regulations added or amended in 2017 is January 1, 2018.

Law or Regulation	L&R Committee Item No.	Section	Action	HB-130 Page
A. Uniform Packaging and Labeling Regulation	NONE			

NIST Handbook 130 Editorial Changes to the Uniform Package and Labeling Regulation for the 2018 Edition

Law or Regulation	Section	Action	HB-139 Page
A. Uniform Package and Labeling Regulation	12.2. Magnitude of Permitted Variations. [NOT ADOPTED – CCR § 4511. Exceptions]	Removed text “... tables of the latest version of NIST ...	86

NIST HB 133 Amendments for the 2018 Edition

The following table indicates the items amended by the 102nd (2017) National Conference on Weights and Measures (NCWM). As appropriate, the text on the cited pages indicates the changes to a Handbook 133 section, or paragraph as “Added 2015” or “Amended 2016.” Unless otherwise noted, the effective date of the regulations added or amended in 2017 is January 1, 2018.

Chapter	L&R Committee Item No.	Section	Action	HB-133 Page
Chapter 1. General Information	2600-1	1.2.1. Inspection Lot	Amended	6
Chapter 3. Test Procedures – For Packages Labeled by Volume	2600-1	3.10. Mulch and Soils Labeled by Volume, Table 3-4. Specifications for Test Measures for Mulch and Soils	Amended	68
		3.10.2. Test Procedure	Amended	70
Chapter 4. Test Procedures – Packages Labeled by Count, Linear Measure, Area, Thickness, and Combinations of Quantities	2600-4	4.5. Polyethylene Sheeting, Bags, and Liners	Title Amended	122
		4.5.2. a. Test Procedure for Polyethylene Sheeting	Amended	123
		4.5.2. b. Test Procedure for Polyethylene Bags and Liners.	Added	126

NIST Handbook 133 Editorial Changes for the 2018 Current Edition

The following items were deemed editorial in nature based on the following criteria: 1) the modified text did not change the meaning or procedure outlined, 2) modified text corrected an omission or clarified how the text was written, or 3) the item itself was reformatted and relocated in the text to make the organization of the content more meaningful.

Chapter	Section	Action	HB-133 Page
NONE			

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