



CALIFORNIA DEPARTMENT OF
FOOD AND AGRICULTURE



WEIGHTS AND MEASURES ELECTRONIC FIELD REFERENCE MANUAL (2025)

**CALIFORNIA CODE OF REGULATIONS
TITLE 4, DIVISION 9**

**CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
DIVISION OF MEASUREMENT STANDARDS**

Preface

In accordance with [Business and Professions Code Section 12533 \(c\)](#), the Department of Food and Agriculture (CDFA), Division of Measurement Standards (DMS) has developed a new electronic Field Reference Manual (e-FRM) for 2025. This e-FRM is formatted and designed for online use primarily for Registered Service Agencies (RSAs) and service agents (employees of an RSA). It is statutorily mandated that RSAs possess a copy of the California Code of Regulations (CCR) Title 4, Division 9 (commencing with Section 4000 et. seq.) to complete their initial or renewal registration application. This e-FRM provides an RSA with online access to the most current copy of California regulations related to weighing and measuring devices used for commercial purposes. Others not doing business as an RSA may also use this document and once familiarized with it, find out how useful this online tool is and just how easy it is to navigate California's regulations.

Introduction

Occasionally, and throughout the year, the provisions of CCR Title 4, Division 9 change due to an addition, modification or repeal of certain sections of regulation. This new e-FRM includes real-time, user-friendly links to the most current published requirements updated regularly on the publishing company's website, Thomson Reuters – [Westlaw](#). This new format includes collapsible / expandable headings where an RSA can expand on any chapter of interest and navigate to the desired section(s) of regulation. To use the new e-FRM format, click on any of the chapters, articles, or sections (code numbers or titles) to view the official, published language of that section. Additionally, any [underlined text](#) in this document links to associated California laws, regulations or additional information for further reference.

An RSA may navigate this e-FRM with ease and confidence knowing they are referencing the most up-to-date weights and measures regulations. This e-FRM may be downloaded as a [portable document format \(PDF\)](#) file or accessed online using a desktop computer or any mobile device with internet access. This new e-FRM format complies with the Americans with Disabilities Act (ADA) by offering the "Read Aloud" functionality of this and other linked documents and websites. Linked videos also offer closed captioning functionality. In the open document or video, either right-click or choose the universal icon(s) to begin audio reading  or text display. Although it is a printable file, please go paperless and consider making use of its new electronic capability!

Some sections of this e-FRM contain one or more CDFA-DMS NOTES that provide quick reference information about the provisions of that section. These notes are intended to assist an RSA with becoming more familiar with that section before linking to it.

Before using this document, please review [Appendices A-E](#) for additional instruction, statutory and regulatory references, and tutorials and training courses included to improve an RSA or service agent's baseline knowledge of regulations, rulemaking, and inspecting and testing devices used for commercial purposes.

California Code of Regulations Title 4, Division 9 As Published in Westlaw

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

Article 1. *National Uniformity, Exceptions and Additions*

§ 4000. Application.

NOTE: [NIST Handbook 44](#) is adopted and incorporated by reference.



NIST Handbook 44

NOTE: See [Section 4001. Exceptions](#) for NIST Handbook 44 requirements that **are not** adopted or incorporated by reference.

NOTE: See [Sections 4002-4002.11](#) for additional device requirements specific to California.

§ 4000.1. NOTE: California Type Evaluation Program (CTEP) application fees and requirements.

§ 4000.2. NOTE: California Type Evaluation Program (CTEP) billable fees and other services for type evaluation.

§ 4000.3. NOTE: California Type Evaluation Program (CTEP) annual administrative fee.

§ 4001. Exceptions.

NOTE: The provisions in this list of NIST Handbook 44 sections **are not** adopted or incorporated by reference.

NOTE: See applicable subsections of [Section 4002](#) and cross reference device requirements that are in addition to the provisions of NIST Handbook 44.

[§§ 4001.1.-4001.6.](#)

NOTE: Repealer of these sections; see specific section numbers for more information.

[§ 4002.](#)

Additional Requirements.

NOTE: Requirements in subsections of Section 4002 apply to commercial devices and are in addition to requirements published in NIST Handbook 44.

NOTE: See [Section 4001](#) and cross reference requirements in NIST Handbook 44 that **are not** adopted or incorporated by reference.

[§ 4002.1.](#)

General Code (1.10.)

NOTE: Requirements in addition to [NIST Handbook 44, Section 1.10. General Code.](#)

NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 1.10. General Code.

[§ 4002.2.](#)

Scales (2.20.)

NOTE: Requirements in addition to [NIST Handbook 44, Section 2.20. Scales Code.](#)

NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 2.20. Scales Code.

[§ 4002.3.](#)

Vehicle-Tank Meters. (3.31.)

NOTE: Requirements in addition to [NIST Handbook 44, Section 3.31. Vehicle Tank Meters.](#)

NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.31. Vehicle Tank Meters Code.

[§ 4002.4.](#)

Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices. (3.32.)

NOTE: Requirements in addition to [NIST Handbook 44, Section 3.32. Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices.](#)

NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.32. Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices.

- [§ 4002.4.1.](#) T.N. Tolerances Applicable to Devices Marked I, II, III, III L, and IIII. [Repealed]
NOTE: Repealer filed 11-1-94; operative 12-1-94.
- [§ 4002.5.](#) Hydrocarbon Gas Vapor-Measuring Devices. (3.33.)
NOTE: Requirements in addition to [NIST Handbook 44, Section 3.33. Hydrocarbon Gas Vapor-Measuring Devices.](#)
NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.33. Hydrocarbon Gas Vapor-Measuring Devices.
- [§ 4002.6.](#) Water Meters. (3.36.) [Repealed]
NOTE: Repealer filed 4-9-96; operative 5-9-96.
- [§ 4002.7.](#) Farm Milk Tanks. (4.42.)
NOTE: Requirements in addition to [NIST Handbook 44, Section 4.42. Farm Milk Tanks.](#)
NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 4.42. Farm Milk Tanks Code.
- [§ 4002.8.](#) Liquid-Measuring Devices. (3.30.)
NOTE: Requirements in addition to [NIST Handbook 44, Section 3.30. Liquid-Measuring Devices.](#)
NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.30 Liquid-Measuring Devices Code.
- [§ 4002.9.](#) Hydrogen Gas-Measuring Devices (3.39).
NOTE: Requirements in addition to [NIST Handbook 44, Section 3.39. Hydrogen Gas-Measuring Device.](#)
NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.39. Hydrogen Gas-Measuring Devices.
- [§ 4002.10.](#) Mass Flow Meters. (3.37.)
NOTE: Requirements in addition to [NIST Handbook 44, Section 3.37. Mass Flow Meters.](#)
NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.37. Mass Flow Meters Code.

§ 4002.11. Electrical Vehicle Fueling Systems. (3.40.)

NOTE: Requirements in addition to [NIST Handbook 44, Section 3.40. Electric Vehicle Fueling Systems.](#)

NOTE: See [Section 4001](#) and cross reference requirements **not** adopted or incorporated by reference in NIST Handbook 44, Section 3.40. Electrical Vehicle Fueling Systems Code.

§§ 4003.-4009.6. NOTE: Repealer of these sections; see specific section numbers for more information.

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

§ 4010. Application.

NOTE: Articles 2-2.3 contain requirements for commercial devices not covered in NIST Handbook 44.

§§ 4010.1.-4011.5. NOTE: Repealer of these sections; see specific section numbers for more information.

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

§ 4012. A. Application.

§ 4012.1. S. Specifications.

§ 4012.2. N. Notes.

§ 4012.4. T. Tolerances.

§ 4012.5. UR. User Requirements.

Article 2.2. *Electric Watthour Meters*

§ 4027. A. Application.

§ 4027.1. D. Definitions.

§ 4027.2. S. Specifications.

§ 4027.3. N. Notes.

§ 4027.4. T. Tolerances.

§ 4027.5. UR. User Requirements.

[Article 2.3.](#) *Carbon Dioxide Liquid-Measuring Devices*

- [§ 4029.](#) A. Application.
- [§ 4029.1.](#) S. Specifications.
- [§ 4029.2.](#) N. Notes.
- [§ 4029.4.](#) T. Tolerances.
- [§ 4029.5.](#) UR. User Requirements.
- [§ 4029.6.](#) Definitions of Terms.

[Chapter 2.](#) **Special Equipment**

[Article 1.](#) *Compressed Gas in Cylinders*

NOTE: CDFA-DMS **does not adopt** the method of sale requirements in [NIST Handbook 130, “Section IV., Section B., Section 2., Section 2.16. Compressed or Liquefied Gases in Refillable Cylinders.”](#) Refer to CCR Sections 4050-4053 for California specific requirements.

- [§ 4050.](#) Application.
- [§ 4051.](#) Cylinder Labeling.
- [§ 4052.](#) Notes.

NOTE: Adopts the [National Bureau of Standards Technical Note 1079, Tables of Industrial Gas Container Contents and Density for Oxygen, Argon, Nitrogen, Helium, and Hydrogen](#) issued in June 1985. The current edition of [NIST Handbook 130, Sections 2.16.3.4. and 2.16.3.5.](#) no longer reference this publication. See Article 1 NOTE, above for more information.

- [§ 4053.](#) Definitions.

[Article 2.](#) *Procedures for Type Approval Certification Evaluation and Field Compliance Testing of Vapor Recovery Systems*

- [§ 4054.](#) A. Application.
- [§ 4054.1.](#) S. Specifications.
- [§ 4054.2.](#) N. Notes—Type Approval Certification Evaluation.

[§ 4054.3.](#) T. Tolerances.

[§ 4055.](#) N. Notes-Field Compliance Testing.

Chapter 3. **Device Inspection**

Article 1. *Inspection Frequencies*

[§ 4070.](#) Inspection Frequencies.

Article 2. *Alternative to the Specified Inspection Frequencies*

[§ 4071.](#) Alternative Inspection Plan Requests.

[§ 4073.](#) Submittal and Approval of an Alternative Plan.

[§ 4074.](#) Approved Alternative Activities Related to Weights and Measures.

Article 3. *Annual Device Administrative Fee*

[§ 4075.](#) Administration.

Chapter 4. **Registration of Service Agencies for Commercial Weighing and Measuring Devices**

[§ 4080.](#) Application.

[§ 4081.](#) Registration of Service Agencies and Service Agents Required.

[§ 4082.](#) Fees.

[§ 4083.](#) Examinations/Licenses.

[§ 4084.](#) Authority for Service Agency to Place a Device into Service.

[§ 4085.](#) Responsibility of a Service Agency.

[§ 4086.](#) Certification of Service Agency Standards.

[§ 4087.](#) Payments to Counties.

[§ 4088.](#) Advisory Committee.

Chapter 5. **Billing for Utility Services**

[§ 4090.](#) Billing for Utility Service.

Chapter 6. Automotive Products Specifications

Article 1. Brake Fluid Standards

§ 4100. Specifications.

Article 2. Brake Fluid Labeling

§§ 4110.-4111. NOTE: Repealer filed 11-19-85; effective thirtieth day after thereafter. See specific section numbers for more information.

§ 4112. Container Labeling.

Article 3. Automatic Transmission Fluid Standards [Repealed]

NOTE: Repealer of Article 3 filed 8-18-87; operative 9-17-87.

Article 4. Automatic Transmission Fluid Registration [Repealed]

NOTE: Repealer of Article 4 filed 11-19-85; effective thirtieth day thereafter.

Article 5. Engine Fuel Standards

§ 4140. Definitions Used in Title 4, Division 9, Chapters 6 and 7.

NOTE: Biodiesel, Diesel fuel, Biodiesel blend, Non-ester renewable diesel, Non-ester renewable diesel blend, Biomass-blend diesel.

§ 4141. Specifications—Automotive Spark Ignition Engine Fuel.

§ 4142. Specifications—Kerosene.

§ 4143. Specifications—Fuel Oil.

§ 4144. Specifications—Diesel Fuel.

§ 4145. Specifications—Developmental Fuels.

§ 4146. Specifications—E85 Fuel Ethanol.

§ 4147. Specifications—M85 Fuel Methanol.

§ 4148. Specifications—Biodiesel Blends.

§ 4149. Specifications—Non-Ester Renewable Diesel Blends.

Article 6. Engine Oil Labeling and Exemptions

§ 4150. Labeling.

[§ 4151.](#) Exemptions—Prediluted Oil.

[§ 4152.](#) Tolerances.

NOTE: Ratio of gasoline to motor oil or to motor oil solvent mixture.

[Article 7.](#) *Labeling and Specifications of Engine Coolants*

[§ 4160.](#) Definitions Used in this Article.

NOTES: Engine Coolant, Prediluted Engine Coolant, Recycled Engine Coolant, Recycled Prediluted Engine Coolant, Virgin Engine Coolant, Virgin Prediluted Engine Coolant, Reconditioned Engine Coolant.

[§ 4161.](#) Labeling.

[§ 4162.](#) Specifications — Glycol Base Virgin Engine Coolant and Virgin Prediluted Engine Coolant for Automobiles and Light Duty Service.

[§ 4163.](#) Specifications — Recycled Glycol Base Engine Coolant for Automobiles and Light Duty Service.

[§ 4164.](#) Specifications — Recycled and Reconditioned Glycol Base Prediluted Engine Coolant for Automobiles and Light Duty Service.

[§ 4165.](#) Exemptions — Reserve Alkalinity.

[§ 4166.](#) Variance from Chloride Standard — Specifications for Recycled Engine Coolant.

[§ 4167.](#) Variance from Chloride Standard — Specifications for Recycled Prediluted Engine Coolant or Reconditioned Engine Coolant.

[§ 4168.](#) Availability of ASTM Standards and Test Procedures.

[§ 4169.](#) Evaluation of Test Results.

NOTE: Evaluation of Suspended Matter and Sediment in Engine Coolant and Recycled Engine Coolant.

NOTE: Evaluation of Suspended Matter and Sediment in Prediluted Engine Coolant and Prediluted Recycled Engine Coolant.

[§ 4170.](#) Verification of Claim for Recycled Engine Coolant.

NOTE: Chloride ion concentration greater than 25 parts per million (ppm) or a sulfate ion concentrate greater than 100 ppm.

[§ 4171.](#) Verification of Claim for Recycled Prediluted Engine Coolant or Reconditioned Engine Coolant.

NOTE: Chloride ion concentration greater than 33 parts per million (ppm) or a sulfate ion concentration greater than 140 ppm.

§§ 4172.-4175.

NOTE: Repealer filed 1-11-2002; operative 1-11-2002 pursuant to Government Code section 11343.4. See specific section numbers for more information.

Article 8.

Specifications for Hydrogen Gas Used in Internal Combustion Engines and Fuel Cells

§ 4180.

Definitions Used in this Article.

NOTE: Fuel Cell, Internal Combustion Engine.

§ 4181.

Specifications — Hydrogen Fuel Used in Internal Combustion Engines and Fuel Cells.

Article 9.

Specifications for Dimethyl Ether Used as a Motor Vehicle Fuel

§ 4190.

Definitions Used in this Article.

NOTES: Dimethyl Ether Fuel (DME Fuel)

§ 4191.

Specifications — Dimethyl Ether Used as a Motor Vehicle Fuel.

Chapter 7.

Advertising and Labeling of Gasoline and Other Motor Vehicle Fuels

§ 4200.

Advertising Medium.

§ 4201.

Price Sign Display on Dispensing Apparatus.

§ 4202.

Labeling and Price Sign Advertising Requirements for Biodiesel and Biodiesel Blends.

§ 4203.

Labeling and Price Sign Advertising Requirements for Biomass-Based Diesel and Biomass-Based Diesel Blends.

§ 4204.

Labeling and Price Sign Advertising Requirements for E85 Fuel Ethanol and M85 Fuel Methanol.

§ 4205.

Illumination.

§ 4206.

Dispenser Labeling Requirements for Compressed Natural Gas and Liquefied Natural Gas.

§ 4207.

Additional Dispenser Labeling Requirements for Liquefied Natural Gas and Compressed Natural Gas.

Chapter 8. **Motor Oil Fee**

- [§ 4300.](#) Definition of “Motor Oil” and Other Terms for Purposes of Fee Responsibility.
- [§ 4302.](#) Fee Responsibility and Exemption.
- [§ 4304.](#) Fees and Remittance Forms.
- [§ 4305.](#) Authority to Determine Compliance.
- [§ 4306.](#) Penalties.
- [§ 4307.](#) Refund of Fees Paid.
- [§ 4308.](#) Records.
- [§ 4309.](#) Motor Oil Fee Reimbursement.

Chapter 9. **Weighmaster Enforcement**

Article 1. *General Provisions*

- [§ 4400.](#) Definition. [Repealed]
NOTE: Repealer filed 4-25-86; effective thirtieth day thereafter.
- [§ 4401.](#) Licenses.
- [§ 4402.](#) Requirement for Zero-Load Balance Condition.
- [§ 4403.](#) Legally Relevant Data.

Article 2. *Weighmaster Certificates*

- [§ 4410.](#) Recording Procedures.

[§§ 4411.-4415.](#) NOTE: Repealer filed 4-25-86; effective thirtieth day thereafter. See specific section numbers for more information.

Article 3. *Predetermined Individual Tare Weights*

- [§ 4420.](#) Predetermined Individual Tare Weight.
- [§ 4421.](#) Establishing.
- [§ 4422.](#) Certificate Requirements.
- [§ 4423.](#) Conditions of Use.

Article 4. *Seasonal Tare Weights*

[§ 4430.](#) Seasonal Tare Weight.

[§ 4431.](#) Establishing.

[§ 4432.](#) Certificate Requirement.

[§ 4433.](#) Conditions of Use.

[Article 5.](#) *Common Tare Weights*

[§ 4440.](#) Common Tare Weight.

[§ 4441.](#) Establishing.

[§ 4442.](#) Sample Size.

[§ 4443.](#) Rounding Procedures.

[§ 4444.](#) Certificate Requirements.

[§ 4445.](#) Conditions of Use.

[§ 4446.](#) Verification and Enforcement.

[Article 6.](#) *Limits of Permissible Error*

[§ 4450.](#) Tolerance Levels.

[Article 7.](#) *Average Tare Weights*

[§ 4460.](#) Average Tare Weight.

[§ 4461.](#) Establishing.

[Article 8.](#) *Volumetric Conversion to Weight of Squid*

[§ 4470.](#) Container Requirements.

[§ 4471.](#) Container Markings.

[§ 4472.](#) Certificate Requirements.

[Article 9.](#) *Director's Approval of Inspection of Weighmaster Records*

[§ 4480.](#) Application.

[§ 4481.](#) Definition of Designated Agent.

[§ 4482.](#) Information Required by the Director.

[§ 4483.](#) Approval of Request.

[§ 4484.](#) Denial of Request.

[§ 4485.](#) Applicability—District Attorney.

[§ 4486.](#) Applicability—Other Law Enforcement Agencies.

[Article 10.](#) *Timber Tare Weights*

[§ 4490.](#) Definitions.

[§ 4491.](#) Establishing.

[§ 4492.](#) Certificate Requirements.

[§ 4493.](#) Conditions of Use.

[Article 11.](#) *Multiple Draft Weighing Operations*

[§ 4495.](#) Application.

[§ 4495.1.](#) Definitions.

[§ 4495.2.](#) Request for Authorization.

[§ 4495.3.](#) Conditions of Use.

[§ 4495.4.](#) Certificate Requirements.

[§ 4495.5.](#) Establishment and Tolerance.

[§ 4495.6.](#) Verification and Enforcement.

[Article 12.](#) *Unattended Weighing Systems*

[§ 4496.](#) Application.

[§ 4496.1.](#) Definitions.

[§ 4496.2.](#) Conditions of Use.

[§ 4496.3.](#) Certificate and Records Requirements.

[§ 4496.4.](#) Specifications.

[§ 4496.5.](#) License Fees when Updated to Include Unattended Weighing Systems.

[§ 4496.6.](#) Additional Requirements.

Chapter 10. **Quality Control**

Article 1. **General**

§ 4500. Standards for Fresh Berries.

§ 4501. Fish Sales by Weight.

§ 4502. Wood for Fuel Purposes. [Repealed]

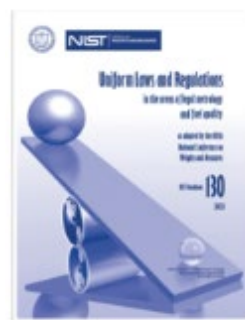
NOTE: Renumbering and amendment of former Section 4502 to [Section 4531](#) filed 7-12-90; operative 8-11-90

§ 4503. Gravimetric Testing of Fluid Products and Products Sold by Count.

Article 2. ***Uniform Packaging and Labeling Regulation***

§ 4510. Application.

NOTE: [NIST Handbook 130 Uniform Packaging and Labeling Regulation](#) is adopted and incorporated by reference.



NIST Handbook 130

NOTE: See [Section 4511. Exceptions](#) for NIST Handbook 44 requirements **not** adopted or incorporated by reference.

NOTE: See [Sections 4512.-4512.3.](#) for additional device requirements specific to California.

§ 4511. Exceptions.

NOTE: The provisions in this list of NIST Handbook 130 sections **are not** adopted or incorporated by reference.

NOTE: See applicable subsections of [Section 4512](#) and cross reference packaging and labeling requirements that are in addition to the provisions of NIST Handbook 130.

§ 4512. Additional Requirements.

NOTE: Requirements in subsections of Section 4512 apply to packaging and labeling in addition to requirements published in NIST Handbook 130.

NOTE: See [Section 4511](#) and cross reference requirements in NIST Handbook 130 that **are not** adopted or incorporated by reference.

[§ 4512.1.](#) Polyethylene Products.

NOTE: Requirements in addition to [NIST Handbook 130 Uniform Packaging and Labeling Regulation](#).

NOTE: See [Section 4511](#) and cross reference requirements that **are not** adopted or incorporated by reference in NIST Handbook 130.

[§ 4512.2.](#) Animal Bedding.

NOTE: Requirements in addition to [NIST Handbook 130 Uniform Packaging and Labeling Regulation](#).

NOTE: See [Section 4511](#) and cross reference requirements that **are not** adopted or incorporated by reference in NIST Handbook 130.

[§ 4512.3.](#) Enforcement.

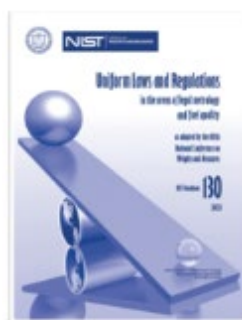
NOTE: Requirements in addition to [NIST Handbook 130 Uniform Packaging and Labeling Regulation](#).

NOTE: See [Section 4511](#) and cross reference requirements that **are not** adopted or incorporated by reference in NIST Handbook 130.

[Article 3.](#) *Fireplace and Stove Wood*

[§ 4530.](#) Method of Sale.

NOTE: [NIST Handbook 130, Section 2.4. Fireplace and Stove Wood](#) (2019 Edition) is adopted and incorporated by reference.



NIST Handbook 130

NOTE: See [Section 4531](#) for additional fireplace and stove wood method of sale requirements specific to California.

[§ 4531.](#) Additional Requirements for Kindling.

NOTE: Requirements in addition to [NIST Handbook 130, Section 2.4. Fireplace and Stove Wood](#) (2019 Edition).

[§ 4532.](#) Volumetric Sampling and Test Procedures.

NOTE: [NIST Handbook 133 test procedures and labeling of packaged and stacked firewood](#) is adopted and incorporated by reference.



NIST Handbook 133

[§§ 4533.-4536.2.](#) NOTE: Repealer filed 5-4-2020; operative 7-1-2020. See specific section numbers for more information.

[Chapter 11.](#) **Sampling and Testing Procedures for Determining the Net Contents of Packaged Commodities**

[Article 1.](#) *Definitions*

[§ 4600.](#) National Uniformity.

NOTE: [NIST Handbook 133](#) (current edition) is adopted and incorporated by reference. There **are no** exclusions or additional requirements adopted in CCR.



NIST Handbook 133

[Article 2.](#) *Sampling and Testing Procedures for Determining the Net Contents of Packaged Commodities [Repealed]*

NOTE: Repealer of Article 2 and section filed 1-5-96; operative 1-5-96 pursuant to Government Code section 11343.4(d).

Chapter 12.

Administration

Article 1.

Permit Reform Act

§ 4700.

Permit Processing Times (Including Licenses, Permits, Registrations and Certificates).

§ 4701.

Appeal Procedure.

Article 2.

Weights and Measures Penalty Guidelines

§ 4800.

Notice of Proposed Action and Disposition.

§ 4801.

Administration.

§ 4802.

Penalty Guidelines.

Article 3.

Applicant Verification Regulations

§ 4900.

Limitations on Licensure of Aliens.

Appendix A.

NOTE: Statement of citizenship, alienage, and immigration status for state public benefits – Licensure

Appendices: How to Successfully Use This e-FRM:

Appendix A. Westlaw

The primary function of the e-FRM is to provide Registered Service Agencies (RSAs) with real-time, user-friendly regulatory references via hyperlinks to the most current CCR language and requirements published on the Westlaw website. This appendix provides a basic introduction and other useful information to successfully use Westlaw as a reference tool. Once acquainted with Westlaw, an RSA may navigate the website with ease and confidence knowing they are referencing the most up-to-date weights and measures regulations. Westlaw can be accessed online using a desktop computer or any mobile device with internet access.

NOTE: If an RSA knows ahead of time that they will be traveling to a location with intermittent or no internet connection, ahead of the trip they can electronically download or screen shot the specific official statutes in California Legislative Information, regulations in Westlaw, or the requirements in sections of NIST Handbooks applicable to the device they intend to work on. Although each of these are printable, please go paperless and consider making use of modern electronic capability in the form of downloads and screen shots of needed information!

CDFA-DMS has authority to implement and enforce provisions in BPC Division 5 and CCR Title 4, Division 9, Sections 4000-4900. The links in this e-FRM reference these laws in either the California Legislative Information or the Westlaw websites.

NOTE: CCR, Title 4, Division 8 was repealed in 1982-1983 and is no longer operative.

Follow these links or copy/paste the URLs into your browser to view or download:

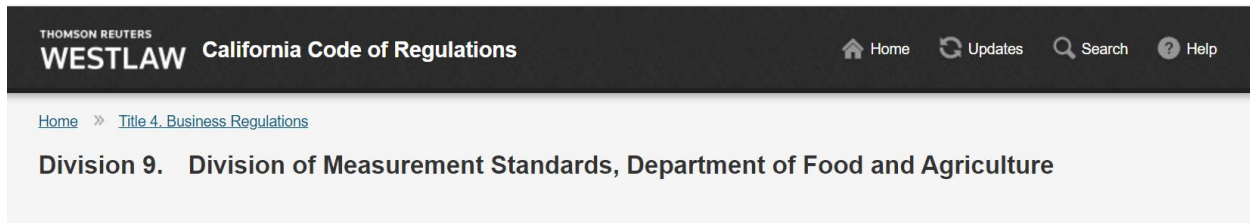
[Business and Professions Code, Division 5.](#)

https://leginfo.legislature.ca.gov/faces/codes_displayexpandedbranch.xhtml?tocCode=BPC&division=5.&title=&part=&chapter=&article=

[California Code of Regulations Title 4, Division 9.](#)

[https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IA4FB50A0543B11ECAE2D000D3A7C4BC3&originationContext=documenttoc&transitionType=Default&contextData=\(sc.Default\)&bhcp=1](https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IA4FB50A0543B11ECAE2D000D3A7C4BC3&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default)&bhcp=1)

Westlaw offers RSAs the use of the following functionalities on its homepage (top, right) while referencing the CCR:



HOME: This icon will take the RSA to the highest-level table of contents of the CCR. This screen includes all CCR regulatory Titles 1-28. **CDFA-DMS only enforces provisions in CCR Title 4, Division 9, Sections 4000-4900.**

UPDATES: This icon updates the Westlaw search engine and refreshes the webpage with the latest updates. This is usually done automatically each time the RSA logs in to Westlaw. NOTE: An RSA must ensure that their web browser and java script applications are also updated before use; Click on Westlaw’s HELP icon for more information and review HELP description below.

SEARCH: This icon is the RSA’s most effective reference tool in Westlaw as it opens the search engine function. Further [Search information and instructions](#) on using Westlaw as a search engine and descriptions of various types of search criteria the RSA may use to navigate to a desired regulatory section are below:

Connectors	Examples	Results
and	juvenile and felony	Finds documents containing both terms, e.g., <i>juvenile</i> and <i>felony</i>
or (default)	juvenile or felony	Finds documents containing one or both of the terms, e.g., <i>juvenile</i> or <i>felony</i> or both
but not	juvenile but not felony	Finds documents containing the first term but not the second term, e.g., <i>juvenile</i> but not <i>felony</i>

“Search for Words” – Allows an RSA to search all titles of CCR for desired words or phrases.

Search Terms

☐ Restrict search to the most recent regulation updates

Search

“Search within Specific Title(s)” (Preferred Search Filter) – Allows an RSA to first filter to a specific title of CCR in addition searching desired words or phrases.

NOTE: For weights and measures regulations choose the “Title 4” filter and enter desired words or phrases. The RSA must disregard any results that are not within Title 4 Sections 4000-4900, as those results are beyond the scope of weights and measures regulations.

Titles

☐ TITLE 1. GENERAL PROVISIONS
☐ TITLE 2. ADMINISTRATION
☐ TITLE 3. FOOD AND AGRICULTURE
☒ TITLE 4. BUSINESS REGULATIONS
☐ TITLE 5. EDUCATION
☐ TITLE 7. HARBORS AND NAVIGATION
☐ TITLE 8. INDUSTRIAL RELATIONS
☐ TITLE 9. REHABILITATIVE AND DEVELOPMENTAL SERVICES
☐ TITLE 10. INVESTMENT
☐ TITLE 11. LAW
☐ TITLE 12. MILITARY AND VETERANS AFFAIRS
☐ TITLE 13. MOTOR VEHICLES
☐ TITLE 14. NATURAL RESOURCES
☐ TITLE 15. CRIME PREVENTION AND CORRECTIONS
☐ TITLE 16. PROFESSIONAL AND VOCATIONAL REGULATIONS
☐ TITLE 17. PUBLIC HEALTH
☐ TITLE 18. PUBLIC REVENUES
☐ TITLE 19. PUBLIC SAFETY
☐ TITLE 20. PUBLIC UTILITIES AND ENERGY
☐ TITLE 21. PUBLIC WORKS
☐ TITLE 22. SOCIAL SECURITY
☐ TITLE 23. WATERS
☐ TITLE 24. BUILDING STANDARDS CODE
☐ TITLE 25. HOUSING AND COMMUNITY DEVELOPMENT
☐ TITLE 26. TOXICS
☐ TITLE 27. ENVIRONMENTAL PROTECTION
☐ TITLE 28. MANAGED HEALTH CARE

Search Terms

☐ Restrict search to the most recent regulation updates

Search

[“Search for a Specific Regulatory Section”](#) (Default Search Filter) – Used when an RSA already knows of a reference to a specific title and section of CCR.

Title

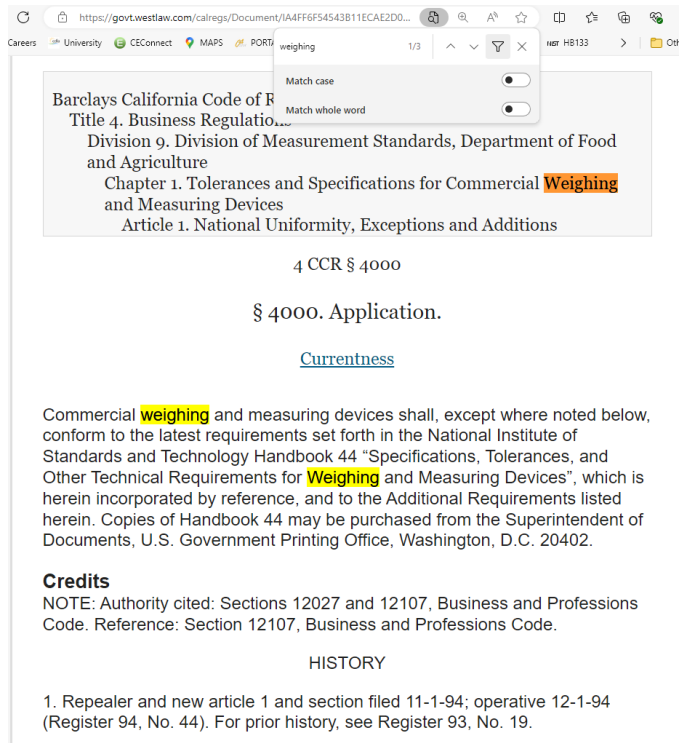
Section

Search

[“Find a Specific Regulatory Agency”](#) – Lists all California State Regulatory Agencies that enforce the provisions of one or more titles of CCR.

After navigating to a desired section of regulation, an RSA may open any Westlaw table of contents screen (Chapter or Article) or a specific section of code and perform the “Find” function (Ctrl + F) to search for a desired word or phrase within that screen. Westlaw highlights all occurrences of the word or phrase in yellow and further highlights the currently selected term in orange i.e., the currently selected term “weighing”

(occurrence 1 of 3), in the image below is highlighted orange. In the “Find” pop-up window, an RSA may click the up and down arrows   to select the prior or subsequent result or the “filter” icon  to open advanced filtering search criteria.



HELP: This icon is a trove of useful information introducing an RSA to regulations, the rulemaking process, and this link also includes two FAQs on how to use Westlaw as a resource tool. Read, search, find and discover all the capabilities of Westlaw and reference the most current, official version of the California Code of Regulations!

California Code of Regulations Help

[About the California Code of Regulations Site](#)
[CCR FAQ](#)
[Technical FAQ](#)
[Agency List](#)
[Contact Us](#)
[California Legal Products](#)
[Searching California Code of Regulations](#)
[Browsing Documents](#)

Westlaw also offers a “[Documents In Sequence](#)” function. Once in a specific section, an RSA may scroll to the bottom of the screen to choose “Documents in Sequence” and then choose either the backward or forward icons to display sequential sections before

or after the specific section. When finished, an RSA may click on “Cancel” at the bottom of the screen to turn this function off.

§ 4000. Application.

[Currentness](#)

Commercial weighing and measuring devices shall, except where noted below, conform to the latest requirements set forth in the National Institute of Standards and Technology Handbook 44 “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices”, which is herein incorporated by reference, and to the Additional Requirements listed herein. Copies of Handbook 44 may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Credits
NOTE: Authority cited: Sections 12027 and 12107, Business and Professions Code. Reference: Section 12107, Business and Professions Code.

HISTORY

1. Repealer and new article 1 and section filed 11-1-94; operative 12-1-94 (Register 94, No. 44). For prior history, see Register 93, No. 19.

This database is current through 12/13/24 Register 2024, No. 50.

Cal. Admin. Code tit. 4, § 4000, 4 CA ADC § 4000

END OF DOCUMENT

[< Documents In Sequence >](#)
[Cancel](#)

Appendix B. Electronic Edition of NIST Handbook 44

More companies, organizations, and agencies are transitioning their business practices to paperless or online applications. The National Institute of Standards and Technology (NIST) and the National Council on Weights and Measures (NCWM) have followed suit by publishing NIST Handbooks online. The current edition of NIST Handbook 44, *Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices* is available online at:

[NIST Handbook 44](https://www.nist.gov/pml/owm/nist-handbook-44-current-edition)

<https://www.nist.gov/pml/owm/nist-handbook-44-current-edition>



NIST Handbook 44

Refer to the NIST Handbook 44 [Introduction](#) and [Appendix A. Fundamental Considerations](#) for more information on how to use NIST Handbook 44.

[BPC Section 12107](#). Requires CDFA to adopt NIST Handbook 44 in CCR;

[CCR Section 4000](#). NIST Handbook 44 is adopted and incorporated by reference;

[CCR Section 4001](#). Sections of NIST Handbook 44 that are not adopted and incorporated by reference; and

[CCR Section 4002-4002.11](#). Adopts additional commercial device requirements specific to California.

In BPC Division 5, [Section 12107](#) and in CCR Title 4, Division 9, Chapter 1. Tolerances and Specifications for Commercial Weighing and Measuring Devices, Article 1. National Uniformity, Exceptions and Additions, [Section 4000. Application](#), CDFA-DMS adopts and incorporates the latest edition of NIST Handbook 44 in its entirety. In CCR [Section 4001. Exceptions](#), CDFA-DMS lists sections of NIST Handbook 44 that **are not** adopted or incorporated by reference and therefore not enforceable in California. CDFA-DMS also adopts additional commercial device requirements not published in NIST Handbook 44 in subsections of [Section 4002. Additional Requirements](#).

An RSA must be familiar with this practice and be knowledgeable of the exceptions in Section 4001 and additional requirements adopted in subsections of Section 4002 for

each type of commercial device they repair, inspect, test, and place in service. On a computer or mobile device with internet access, an RSA must open:

1. the current edition of NIST Handbook 44, Section 1.10. General Code and the specific section code of the commercial device being worked on e.g., Section 2.20. Scales Code for a commercial weighing device;
2. CCR Title 4 Section 4001; and
3. the specific subsection of Section 4002 applicable to the commercial device being worked on.

The provisions of any referenced section of NIST Handbook 44 in CCR Section 4001 shall not be applied to the device, while any provisions in the corresponding subsection of Section 4002 must be applied concurrently and in addition to those in NIST Handbook 44. This e-FRM has “NOTES” in these sections to assist an RSA with becoming familiar with this practice even while working in the field.

NOTE: If an RSA knows ahead of time that they will be traveling to a location with intermittent or no internet connection, ahead of the trip they can electronically download or screen shot the specific statutes in California Legislative Information, regulations in Westlaw, or the requirements in sections of NIST Handbooks applicable to the device they intend to work on. Although each of these are printable, please go paperless and consider making use of modern electronic capability in the form of downloads and screen shots of need information!

Each code in NIST Handbook 44 is divided into five primary subsections, and some specific codes further subdivide these as needed:

1. A. Application
2. S. Specifications
3. N. Notes
4. T. Tolerances
5. UR. User Requirements

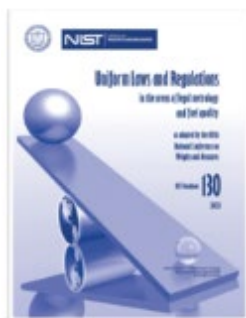
There is a “G” prefix for requirements published in Section 1.10. General Code. Appendix D. contains definitions for technical words or phrases used throughout NIST Handbook 44.

Appendix C. Electronic Edition of NIST Handbook 130

More companies, organizations, and agencies are transitioning their business practices to paperless or online applications. The National Institute of Standards and Technology (NIST) and the National Council on Weights and Measures (NCWM) have followed suit by publishing NIST Handbooks online. The current edition of NIST Handbook 130, *Uniform Laws and Regulations in the Areas of Legal Metrology and Fuel Quality* is available online at:

[NIST Handbook 130](https://www.nist.gov/pml/owm/nist-handbook-130-current-edition)

<https://www.nist.gov/pml/owm/nist-handbook-130-current-edition>



NIST Handbook 130

CDFA-DMS only adopts certain sections of NIST Handbook 130 in the following California laws or regulations:

[“Section IV. Uniform Regulations, Section A. Uniform Packaging and Labeling Regulation”](#) (current edition) enacted and adopted in:

[BPC Section 12609](#). Requires CDFA to adopt the current edition of this part of NIST Handbook 130;

[CCR Title 4 Section 4510](#). NIST Handbook 130, “Part IV. Uniform Regulation, Section A. Uniform Packaging and Labeling Regulation” is adopted and incorporated by reference;

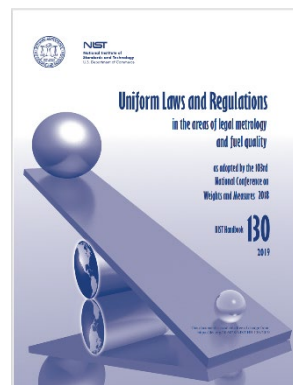
[CCR Title 4 Section 4511](#). Sections of NIST Handbook 130 Uniform Packaging and Labeling Regulation that **are not** adopted and incorporated by reference; and

[CCR Title 4 Section 4512-4512.3](#). Additional packaging and labeling requirements specific to California are adopted in these subsections.

“Section IV. Uniform Regulations, Section B. Uniform Regulation for the Method of Sale of Commodities (MOS), Section 2. Non-Food Products” specifically and only for fireplace and stove wood, fuels and lubricants; and diesel exhaust fluid enacted and adopted in:

[“Section 2.4. Fireplace and Stove Wood”](#) (2019 edition of NIST Handbook 130, pp.117-118):

[BPC Section 12024.11](#). Requires CDFA to adopt regulations for the method of sale and advertisement of wood for fuel purposes; and
[CCR Section 4530](#). Adopts the 2019 edition of NIST Handbook 130, Section 2.4.



Applicable sections of Section B., Section 2., for all motor vehicle fuels and lubricants enacted in BPC and will be adopted and incorporated by reference in CCR (current edition):

[BPC Section 13404.5](#). Requires CDFA to adopt the methods of sale of motor vehicle fuels and lubricants in latest edition of NIST Handbook 130.

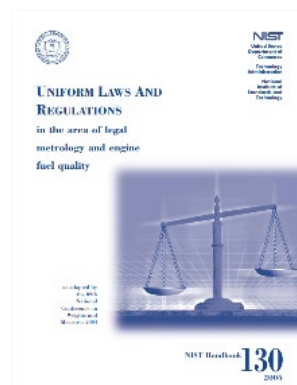
[“Section 2.35. Diesel Exhaust Fluid \(DEF\)”](#) (current edition):

[BPC Section 13711 \(e\)](#). Requires CDFA to adopt the method of sale of diesel exhaust fluid (DEF) in CCR.

NOTE: this section is not yet adopted in CCR.

[“Section V. Examination Procedure for Price Verification \(PPV\)”](#) (2005 edition NIST Handbook 130, pp. 169-198) for randomized sample collection; stratified sample collection adopted in:

[BPC Section 13351](#). Requires CDFA to model the “random sample” procedures after the PPV section of the 2005 edition of NIST Handbook 130.



Appendix D. Electronic Edition of NIST Handbook 133

More companies, organizations, and agencies are transitioning their business practices to paperless or online applications. The National Institute of Standards and Technology (NIST) and the National Council on Weights and Measures (NCWM) have followed suit by publishing NIST Handbooks online.

Intro and Hyperlinks

[NIST Handbook 133](https://www.nist.gov/pml/owm/nist-handbook-133-current-edition)

<https://www.nist.gov/pml/owm/nist-handbook-133-current-edition>



NIST Handbook 133

CDFA-DMS adopts and incorporates by reference the current edition of NIST Handbook 133, *Checking the Net Contents of Packaged Goods*, in:

[BPC Section 12211](#). Requires CDFA to adopt the latest edition of NIST Handbook 133 in CCR.

[CCR Section 4600](#). NIST Handbook 133 is adopted and incorporated by reference; and

[CCR Section 4532](#). Adopts [NIST Handbook 133 test procedures and labeling of packaged and stacked firewood](#).

Appendix E. NIST Online Tutorials and Training

Become familiar and get connected with the National Institute of Standards and Technology (NIST)!

NIST offers many online tutorials and training courses for RSAs including training videos, presentations, Newsletters/Blogs, and self-study guides on its [e-Learning Resources and Training Materials](#) webpage or copy / paste in your browser:

<https://www.nist.gov/pml/owm/owm-products-and-services/e-learning-resources>

[NIST Office of Weights and Measures \(OWM, Federal\) Background and History](#)

<https://www.nist.gov/pml/owm/about-owm/owm-background-and-history>

[NIST Handbook Tutorial Video for “Digitization” of NIST Handbooks 44, 130 and 133](#) webpage or copy / paste in your browser:

<https://www.nist.gov/video/owm-info-hours-digitalization-nist-handbooks>

[Self-Study Guide NIST Handbook 44 \(2009 edition\)](#) training course available at

- **Cover and Table of Contents** [DOC](#)
- **Chapter 1** – Introduction to the Course [DOC](#)
- **Chapter 2** - Background [DOC](#)
- **Chapter 3** – Organization and Format of NIST Handbook 44 [DOC](#)
- **Chapter 4** - How to Use NIST Handbook 44 [DOC](#)
- **Chapter 5** - Basic Principles Underlying NIST Handbook 44 [DOC](#)

NOTE: This study guide was developed in 2009. While the specific provisions or requirements in NIST Handbook 44 have changed through the years, its contents, introduction, appendices, and the basic knowledge of how to use the handbook has not.

[NIST Study Guides for Inspection and Testing](#) training courses available:

- [Grain Moisture Meters and NIR Grain Analyzers](#)
- [Measuring - Retail Motor-Fuel Dispensers](#)
- [Measuring – Large Meters](#)
- [Measuring - Liquefied Petroleum Gas Liquid-Measuring Devices](#)
- [Packaging and Labeling Inspections](#)
- [Weighing - Small Scales](#)
- [Weighing - Large Scales](#)

[NIST OWM Examination Procedure Outlines \(EPOs\)](#)

NOTE: This link to OWM's EPOs are based on the current edition of NIST Handbook 44, however may not reflect requirements of NIST Handbook 44 listed in CCR Section 4001 that **are not** adopted or other California specific requirements adopted in subsections of CCR Section 4002 that **are not** published in NIST Handbook 44. Please reference the aforementioned sections of the California Code of Regulations before using these EPOs for examination purposes.

Older editions of EPOs are published in [NIST Handbook 112](#) (2002 Edition), but are not recommended to be used for examination purposes as they potentially contain outdated requirements or lack the latest requirements in the current edition of NIST Handbook 44.

NOTE: CDFA-DMS published some EPOs that are California specific and posted on the [DMS Publications](#) webpage:

<https://www.cdfa.ca.gov/dms/publications.html>

[NIST Handbook Tutorial for Packaging and Labeling:](#)

[Office of Weights and Measures \(OWM\) Technical Article Library](#)

<https://www.nist.gov/pml/owm/owm-products-and-services/technical-articles>

[OWM Training and Events](#)

<https://www.nist.gov/pml/owm/owm-training-and-events>

[OWM Newsletter](#)

<https://www.nist.gov/pml/owm/owm-products-and-services/newsletter>

[OWM Technical Article Library](#)

<https://www.nist.gov/pml/owm/owm-products-and-services/technical-articles>

[National Legal Metrology Working Groups](#)

<https://www.nist.gov/pml/owm/owm-products-and-services/national-working-groups>