

January 3, 2018

DMS Notice G - 18 - 02R

Discard: January 2019

TO: WEIGHTS AND MEASURES OFFICIALS

**SUBJECT:** 2018 Field Reference Manual and Revision Index (Revised)

The 2018 Field Reference Manual (FRM) and Revision Index are now posted and available on the Division of Measurement Standards' (DMS) website at:

#### www.cdfa.ca.gov/dms/publications.html

On December 29, 2017, the Office of Administrative Law approved proposed amendments to the California Code of Regulations (CCR) Title 4, Division 9 Chapter 8. Motor Oil Fee (effective January 1, 2018). There were no other new regulations or amendments added in 2017 to CCR Title 4, Division 9 for 2018 other than updates to language adopted by reference from the National Institute of Standards and Technology (NIST) Handbooks 44, 130 and 133.

The Revision Index as well as the NIST Handbooks' Index of Amendments and Editorial Changes are included as an attachment to this Notice.

If you have any questions, please contact Tammy Sulli, at (916) 229-3000 or by email at <a href="mailto:Tammy.Sulli@cdfa.ca.gov">Tammy.Sulli@cdfa.ca.gov</a>.

Sincerely,

Kristin Macey Director

Kristin Macey

cc: Gary Leslie, County/State Liaison, CDFA

Attachments



#### 2018

#### **Division of Measurement Standards**

Field Reference Manual Revision Index

#### **Revised Sections**

Cover Page Revision Index
Disclaimer Page Table of Contents

# 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.

#### **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.

§ 4306. Penalties.

§ 4307. Refund of Fees Paid.

§ 4308. Records.

Revised Form: "Motor Oil Fee Remittance Form"

(Form 41-054, Rev. 1/1/18):

(https://www.cdfa.ca.gov/dms/programs/petroleum/

MotorOilFeeRemittanceForm.pdf)

#### 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 102<sup>nd</sup> 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
2.20.	Scales	3200-2	S.1.2.2.2. Class III and IIII Scales.	Renumbered to S.1.2.2.3.	2-9
			S.2.1. Air/Vapor Elimination.	Amended	3-12
3.30.	Liquid-Measuring Devices	3300-1	S.2.1.1. Air/Vapor Elimination on Loading Rack Measuring Systems.	Amended	3-12
3.31.	Vehicle-Tank	3301-1	S.2.1. Vapor Elimination.	Amended	3-34
3.31.	Meters	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
3.30.	water weters	3300-1	S.2.2.1. Air/Vapor Elimination, Batching Measuring Systems.	Amended	3-99
			S.3.3. Air/Vapor Elimination.	Amended	3-110
3.37.	Mass Flow Meters	3307-1	S.3.3.1. Air/Vapor Elimination on Loading Rack Liquid Measuring Systems.	Amended	3-110
			A.2. Exceptions.	Amended	5-27
			S.2.1.1. Air/Vapor Elimination on Loading Rack Measuring Systems.  S.2.1. Vapor Elimination.  S.5.7. Meter Size.  Deleted  N.4.2.3. Wholesale Devices.  Amended  S.2.1. Air/Vapor Elimination.  Amended  S.2.2. Batching Measuring Systems Only.  S.2.2.1. Air/Vapor Elimination, Batching Measuring Systems.  S.3.3. Air/Vapor Elimination.  Amended  S.3.3.1. Air/Vapor Elimination.  Amended  Amended  S.3.3.1. Air/Vapor Elimination.  Amended	5-28	
			S.1.2.2. Distance Mechanism.	Added	5-28
5.54	Taximeters	3504-1	S.1.3. Visibility of Indications.	title (S.1.3.) and new subparagraph	5-28

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	HB-44 PAGE
			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
			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
5.54	Taximeters	3504-1	S.5.1. Taximeter Connected to Networked Systems.	Added	5-33
(Continued)	(continued)	(continued)	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	5-35

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	HB-44 PAGE
				to N.1.3.1.1.	
			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
5.54	Taximeters		N.3. Interference Test.	Amended	5-35
(Continued)	(continued)	3504-1 (continued)	N.1.3.2. Taximeters Using Other Measurement Data Sources.  N.1.3.2.1. Roads.  N.1.3.2.2. Testing for Added  N.1.3.2.2. Testing for Environmental Influences.  N.3. Interference Test.  Amended  T.1.3. On Interference Tests and T.1.3.1. (untitled)  T.2. Tests Using Transfer Standards.  UR.1. Inflation of Vehicle Tires.  UR.2. Position and Illumination of Taximeter.  S.1.7. Minimum Measurement.  S.1.8. Indications Below Minimum and Above Maximum.  To N.1.3.1.2.  Added  Added  Amended  Amended  Amended	5-36	
			T.2. Tests Using Transfer Added		5-36
			UR.1. Inflation of Vehicle Tires.	Amended	5-37
				Amended	5-37
	Multiple Dimension	Multiple Dimension Measuring Devices 3508-1	S.1.7. Minimum Measurement.	Amended	5-79
	Measuring Devices			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		
	LPG and Anhydrous	S.1.4.1.(a)	Corrected "electric" to "electronic"	3-49		
3.32.	Ammonia Liquid- Measuring Devices	S.1.6.1. Travel of Indicator.	Corrected 5-L to 4 L (1 gal)	3-52		

NIST Handbook 44 Editorial Changes for the 2018 Edition					
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	
	General Tables of Units of Measure  Section 4. Tables of Units of Measurement  Section 5. Tables of Equivalents/Units of Length	of Units of	Reformatted tables in Section 4 and added instructions on table use.	C-8	
			Added Units of Length – Thickness Measurement	C-8	
Δnnendiy			Added Units of Pressure	C-15	
Appendix C.			Added Conversion Equations for Temperature	C-15	
		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  $102^{nd}$  (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 N		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	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  $102^{\rm nd}$  (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	2600-1	3.10. Mulch and Soils Labeled by Volume, Table 3-4. Specifications for Test Measures for Mulch and Soils	Amended	68
Volume		3.10.2. Test Procedure	Amended	70
Chapter 4. Test Procedures – Packages Labeled by		4.5. Polyethylene Sheeting, Bags, and Liners	Title Amended	122
Count, Linear Measure, Area,	2600-4	4.5.2. a. Test Procedure for Polyethylene Sheeting Amend	Amended	123
Thickness, and Combinations of Quantities		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
Chapter 2. Test Procedures – Packages Labeled by Weight - Gravimetric Testing	2.3.5.2. Special Procedures for Determining Tare	Modified for clarity of intent.  a. Aerosol and Other Pre- Pressurized Containers  Aerosol and other pre- pressurized containers	21
	2.4.2. Test Procedure	5.(c) corrected the Step 4 (d) to 5 (d).	29
Chapter 3. Test Procedures – For Packages Labeled by Volume			98
Appendix B. Random Numbers Table	Random Starting Place	Added an illustration for finding/using random numbers tables	158
Appendix C. Model Inspection Report Forms	Borax Audit Worksheet	Corrected format and corrected the dry measure for mL in number 8 and formula in number 11.	186
	Section 4. Tables of Units of Measure	Added instructions for using the tables and reformatted tables.	200
	Units of Length – Thickness Measurement	Table Added	201
Appendix E. General Tables of	Units of Pressure	Table Added	210
Units of Measurement	Conversion Equations for Units of Temperature	Table Added	210
	Units of Length	Added 25.4 micrometer (exactly) to the 1 mil unit	212