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DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
WASHINGTON

Letter
Circular
LC-399
(Replaces LC-243)

(December 28, 1933)

WEIGHTS AND MEASURES PUBLICATIONS OF GENERAL INTEREST.

There are listed below some of the weights and measures publications of the Bureau of Standards, selected for their interest to the non-technical reader and for their usefulness to teachers and students in pursuing elementary weights and measures studies. Letter Circular LC376 is obtainable free on request to the Bureau. The remaining publications are obtainable only by purchase at the prices indicated. Orders should be sent direct to the Superintendent of Documents, Government Printing Office, Washington, D. C., accompanied by postal money order, express order, or New York draft payable to his order. Remittance in currency will be at sender's risk.

Copies of these publications are available in many public libraries in large cities and in the libraries of universities and colleges throughout the country, which, as Government depositories, receive copies of the Bureau's publications with the understanding that they will be kept available for free consultation. Most of these Government depositories also have on file a complete list of the Bureau of Standards publications (Circular no. 24, 7th edition, and 1931 Supplement).

Scientific Paper no. 535 "A Fundamental Basis for Measurements of Length." Discusses the relation between the units of length of the United States and Great Britain and suggests that the yard and meter be defined in terms of light waves in such a way that a simple relation will result. 14 pages. 5¢

Circular no. 1 "National Bureau of Standards - Its Functions and Activities." Gives general information concerning the organization, functions, and work of the Bureau. Cites accomplishments and includes illustrations typical of work in laboratories and facilities for same. 84 illustrations. 113 pages. 50¢

Circular no. 19 "Standard Density and Volumetric Tables." This circular contains tables of standard densities for various common liquids, such as water, alcohol, petroleum oils, milk, and sugar solutions. 72 pages. 15¢

- Circular no. 47 and supplement "Units of Weight and Measure - Definitions and tables of equivalents." Contains tables of interrelation of units of measurement in the customary and metric systems. 78 pages. 20¢
- Circular no. 55 "Measurements for the Household." Gives general information on kinds of measurement used in household activities, such as measurements of length, weight, temperature, water, gas, electricity, etc.; with illustrations. 149 pages. 45¢
- Circular no. 71 "Rules and Regulations Promulgated under Authority of the Federal Standard Barrel Law." Relating to the standard barrel for fruits, vegetables, and other dry commodities, with text of the law. 8 pages. 5¢
- Circular no. 328 "Testing of Measuring Tapes at the Bureau of Standards." 16 pages. 10¢
- Circular no. 332 "Testing of Line Standards of Length." 22 pages. 10¢
- Circular no. 392 "Testing of Timepieces." 24 pages. 15¢
- Circular no. 399 "Standard Time throughout the World." 18 pages. 5¢
- Circular no. 402 "Sundials." Gives directions for the construction of a horizontal sundial, with equation of time and bibliography. 6 pages. 5¢
- Handbook no. 11 "Weights and Measures Administration." (June 1, 1927) General treatment of the entire subject of weights and measures supervision. (Bound in cloth) 270 pages. 70¢
- Misc. Pub. no. 3 "The International Metric System." Chart giving graphic comparisons between the units of the metric system and the customary system of weights and measures (size, 28 1/2 by 44 inches). Printed in colors. 25¢
- Misc. Pub. 20 (3d ed.) "Federal and State Laws Relating to Weights and Measures." A compilation of the weights and measures laws of the Federal Government, the various States, territories, and insular possessions. (August 1926). 976 pages. \$2.30.
- Misc. Pub. no. 39 (3d ed.) "Household Weights and Measures" Card to be hung in kitchen giving household weights and measures, particularly those used in cooking. (Size, 8 by 10 1/2 inches). 5¢

- Misc. Pub. no. 45 "Buying Commodities by Weight or Measure." Describes methods of buying commodities and checking purchases; with illustrations. (Reprint of a portion of Circular no. 55) 42 pages. 10¢
- Misc. Pub. no. 49 "Graphic Comparison of Screw Thread Pitches." Gives a graphic and also a tabular comparison of common screw thread pitches;— threads per inch and corresponding pitch in millimeters, and common metric pitches and corresponding threads per inch. 5¢
- Misc. Pub. no. 64 "History of the Standard Weights and Measures of the United States." With illustrations. 34 pages. 15¢
- Misc. Pub. no. 84 "Standard Time Conversion Chart." Time at any other part of the earth may be read directly from the chart. Heavy cardboard with movable disk. (Size, 8 by 10 1/2 inches.) 10¢
- Misc. Pub. no. 103 "Weights and Measures References." Contains references to published material relating to weights and measures standards and administration, including an index to the reports of the National Conferences on Weights and Measures, from the first to the twenty-first, inclusive. 26 pages. 10¢
- Misc. Pub. no. 104 "Testing Equipment for Large Capacity Scales for the Use of Weights and Measures Officials." 17 pages. 10¢
- Misc. Pub. no. 111 "Time Zone Map of the United States and Adjacent Parts of Canada and Mexico." Printed in light blue on white background, the location of the cities are indicated in black lettering and the time-zone boundary lines appear in red. (Size, 20 by 30 inches) 10¢
- Misc. Pub. no. 117 "Units Used to Express the Wave Lengths of Electromagnetic Waves." This paper aims to give the best existing usages including the trend toward the units which have a multiple or submultiple relation of 1,000 connected by the powers of 10 equivalents, that is, those used in the fields of spectroscopy, x-rays, radiometry, colorimetry, and radiocommunication. 4 pages. 5¢
- Misc. Pub. no. 135 "The International Metric System of Weights and Measures." A synopsis of the system is given which shows the derivation of the primary units, their interrelation one with another, the method of forming the multiples and submultiples, the abbreviations used, comparisons of the units with those of our customary system of weights and measures, and tables of equivalents. The status of the metric system in the United States is shown by Congressional enactments and departmental orders. 13 pages. 5¢

Misc. Pub. no. 141 "Report of the National Screw Thread Commission (Revised 1933)." This report contains the final recommendations of the Commission, including a complete classification of screw thread fits for the National Coarse and National Fine thread series, for an 8-pitch, 12-pitch, 16-pitch, and for threads of special diameters, pitches, and lengths of engagement. It also contains specifications and tolerances for National Fire Hose Threads, small hose threads, threads for cutting and welding torches, and information on limit gages and the fundamentals of gaging practice. 171 pages. 15¢

The following seventeen Miscellaneous Publications, representing the available reports of the National Conferences on weights and measures, attended by representatives of the various States, and held at the Bureau of Standards in the years indicated, may be obtained from the Superintendent of Documents. For further information see Miscellaneous Publication no. 103.

Miscellaneous Publication Number	Year	Price	Miscellaneous Publication Number	Year	Price
M7	1908	\$.15	M55	1923	\$.30
M8	1910	.15	M59	1924	.35
M12	1914	.20	M70	1925	.50
M14	1916	.35	M74	1926	.60
M41	1919	.20	M80	1927	.45
M43	1920	.20	M87	1928	.35
M48	1921	.20	M101	1929	.30
M51	1922	.15	M116	1930	.35
			M129	1931	.50

Letter Circular LC-376 "Metric and English Distance Equivalents for Athletic Events (Track and Field)." The Amateur Athletic Union (233 Broadway, New York, N. Y.) has officially adopted the metric units for setting up distances for track events. This letter circular gives the yard equivalents of metric distances and the meter equivalent of yard distances of the principal track events. It also gives metric equivalents of yards, feet, inches, and fractions of an inch which may be used in converting distances attained in field events from one system of measurement to the other. 4 pages. Obtainable from Bureau of Standards, Washington, D. C. without charge.