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NATIONAL BUREAU OF STANDARDS

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WEIGHTS AND MEASURES:  
NATIONAL BUREAU OF STANDARDS PUBLICATIONS OF GENERAL INTEREST

On the following pages are listed some of the weights and measures publications of the National 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. Where the price is stated in the extreme right-hand column, the publication can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain foreign countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used) or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order. Letter Circulars are obtainable, without charge, from the Bureau. Publications marked "OP" are out of print.

Copies of the Bureau's 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 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 National Bureau of Standards' publications (Circular C24 and supplements).

Serial letters are used to designate the several series of Bureau publications:

S = "Scientific Paper"	H = "Handbook"
C = "Circular"	M = "Miscellaneous Publication"

LC = "Letter Circular"

<u>Title</u>	<u>Series</u>	<u>Price</u>
A fundamental basis for measurements of length. H. W. Bearce. Sci. Pap. BS <u>21</u> , 395 (1926-27). 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.	S535	5¢
Standard density and volumetric tables. Cir. BS, C19 (6th ed.) (1924). Contains tables of standard densities for various common liquids, such as water, alcohol, petroleum oils, milk, and sugar solutions.	C19	15¢
Copper wire tables. Cir. BS, C31 (3d ed.) (1914). Gives tables in terms of the international standard values for the electrical resistivity, temperature coefficients, and density of copper; a brief history of the development of wire gages; trend of practice; and a detailed consideration of the American wire gage.	C31	20¢
Wire gages. Cir. BS, C67 (1918). A table combining in one series the sizes in the American, Birmingham (Stubs'), British Standard, Steel, and metric wire gages, arranged in order of diameters of wires. Gives the diameters of all the gage numbers in these five systems in mils, inches, and millimeters, also the cross sections in square mils, circular mils, square inches, and square millimeters.	C67	5¢
Rules and regulations promulgated under authority of the Federal standard barrel law. Cir. BS, C71 (1917). Relating to the standard barrel for fruits, vegetables, and other dry commodities, with text of the law.	C71	5¢
Testing of measuring tapes at the Bureau of Standards. Cir. BS, C328 (1927).	C328	10¢
Testing of line standards of length. Cir. BS, C332 (1927).	C332	10¢
Testing of timepieces. Ralph E. Gould. Cir. BS, C392 (1931).	C392	15¢

<u>Title</u>	<u>Series</u>	<u>Price</u>
Sundials. Ralph E. Gould. Cir. BS, C402 (1933). Gives directions for the construction of a horizontal sundial, with equation of time and bibliography.	C402	5¢
Standard time throughout the world. Ralph E. Gould. Cir. NBS, C406 (1935). Gives a brief historical sketch of the development of the standard time system, time zone maps of the United States and of the world, a list of stations transmitting radio time signals, and other general information regarding standard time.	C406	5¢
Weights and measures administration. Ralph W. Smith. Handb. BS, H11 (1927). General treatment of the subject of weights and measures supervision. Includes model State law on weights and measures and recommendations for standards and equipment. (Bound in Cloth)	H11	70¢
Specifications, tolerances, and regulations for commercial weighing and measuring devices.	H22	50¢
The international metric system. Misc. Pub. BS, M3 (1936). 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.)	M3	40¢
Federal and State laws relating to weights and measures. William Parry. Misc. Pub. BS, M20 (3d ed.) (1926). A compilation (796 pages) of the weights and measures laws of the Federal Government, the various States, territories, and insular possessions.	M20	\$2.30
Graphic comparison of screw thread pitches. H. W. Bearce. Misc. Pub. BS, M49 (1922). 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.	M49	5¢

<u>Title</u>	<u>Series</u>	<u>Price</u>
History of the standard weights and measures of the United States. Louis A. Fischer. Misc. Pub. BS, M64 (1925). (Illustrated)	M64	OP
Standard time conversion chart. Ralph E. Gould. Misc. Pub. BS, M84 (1931). 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.)	M84	10¢
Weights and measures references. Ralph W. Smith. Misc. Pub. BS, M103 (1930). Contains references to published material relating to weights and measures standards and administration, including an index to the reports of the National Conference on Weights and Measures, from the first to the twenty-first, inclusive.	M103	10¢
Testing equipment for large capacity scales for the use of weights and measures officials. Ralph W. Smith. Misc. Pub. BS, M104 (1930).	M104	10¢
Units of weight and measure - definitions and tables of equivalents. Misc. Pub. NBS, M121 (1936). Contains tables of interrelation of units of measurement in the customary and metric systems; also shows graphic comparison of screw thread pitches.	M121	15¢
Weights and measures in Congress. Sarah Ann Jones. Misc. Pub. NBS, M122 (1936). Presents a chronological account up to 1838 of the steps taken to secure uniformity in weights and measures in the United States, including an historical summary of proposals made in or to Congress on the subject.	M122	5¢
International metric system of weights and measures. Misc. Pub. BS, M135 (1932). Gives a synopsis of the system showing the derivation of the primary units, their interrelation, the method of forming the multiples and submultiples, the	M135	5¢



Title Series Price

abbreviations used, comparisons of the units with those of our customary system of weights and measures, and tables of equivalents from 1 through 9. The status of the metric system in the United States is shown by Congressional enactments and departmental orders.

Report of the National Screw Thread Commission. M141 OP  
 Misc. Pub. BS, M141 (Revised 1933). 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. Also contains specifications and tolerances for National Fire Hose Threads, small hose threads for cutting and welding torches, and information on limit gages and the fundamentals of gaging practice.

Time zone map of the United States and adjacent M155 10¢  
 parts of Canada and Mexico. Misc. Pub. NBS, M155 (Revised 1936). Printed in light blue on white background; the locations of the cities are indicated in black lettering and the time-zone boundary lines appear in red. (Size, 20 by 30 inches.)

The following listed Miscellaneous Publications, representing the available reports of the National Conference on Weights and Measures, attended by representatives of the various States, and held at the National Bureau of Standards in the years indicated, may be obtained from the Superintendent of Documents. For further information see Miscellaneous Publication M103.

<u>Series</u>	<u>Year</u>	<u>Price</u>	<u>Series</u>	<u>Year</u>	<u>Price</u>
M8	1910	15¢	M70	1925	50¢
M12	1914	20¢	M74	1926	60¢
M14	1916	35¢	M80	1927	45¢
M41	1919	20¢	M87	1928	35¢
M43	1920	20¢	M101	1929	30¢
M48	1921	20¢	M116	1930	35¢
M51	1922	15¢	M129	1931	50¢
M55	1923	30¢	M157	1936	20¢
M59	1924	35¢	M159	1937	15¢
			M161	1938	30¢

<u>Title</u>	<u>Series</u>	<u>Price</u>
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 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. (1933)	LC 376	Free
Standards of length, mass, and time. Contains general information on the units and standards of length, mass, and time. (1935)	LC 449	Free
Motorists' manual of weights and measures. Contains conversion tables (other than for money) useful to motorists touring in foreign countries with notes on brake performance, minimum passing distances, and rules of the road.	LC 517	Free
Policy of the National Bureau of Standards with regard to tests for agencies outside the Bureau. States conditions under which tests can and cannot be made for private firms or individuals.	LC 544	Free
List of weights and measures offices of the States and District and Columbia. Gives the official designation of each office supervising weights and measures matters.	LC 560	Free