

I'm not a robot



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in either miles or kilometers or kilometers, with little difference between the two. Although the Olympics and U.S. track events have been metric for years, it is still common for sports commentators to provide conversions to help the American audience. Measured distances as used in events such as shot put, high jump, and discuss throw are, however, often given in inches, except at the national and international levels. In 2017, the Florida High School Athletic Association became the first to resist this trend and use metric measures for field events.[100] The field and court sizes for most popular team sports such as soccer were originally set in non-metric units. This is reflected in American football, in which the playing field is divided into yards, and many important statistics are measured in yards. Similarly, the dimensions for all baseball parks, basketball courts, tennis courts and ice hockey rinks are given in feet, golf courses in yards, auto racing tracks in miles (or fractions thereof), and horse racing in furlongs. The lengths of automobile races in the U.S. are generally set in miles. Some sporting equipment, such as skis and poles, is sold in metric units. A novelty American football game was attempted in metric units in 1977.[101] although the concept failed to gain acceptance. Bicycles, especially at the high end, are increasingly being sold and sized in metric units.[citation needed] For example, a frame described as "21 inch" size in the past is now often labeled as a "53 cm" frame instead. Some bicycle wheels are labeled in metric as "700c" for a nominal 700 mm diameter road bike tire, but mountain bike wheels are still often sold in inches (26, 27.5, or 29 inches).[citation needed] Common swimming pool dimensions are 25-yard, 25-meter, and 50-meter. The Olympic-size swimming pool is specified solely in meters. High schools and the NCAA conduct 25-yard competitions. USA Swimming (USA-S) swims in both metric and non-metric pools.[citation needed] In the game of Ultimate, the size and weight of flying discs used in competitive play is standardized in millimeters and grams.[102] USA Weightlifting, as a member of the International Weightlifting Federation, uses metric units to measure weight.[103] However, outside of competitions, most gyms label weights and dumbbells in pounds. "Valencia Road, Tucson Airport: 500 m" on Interstate 19 Mileage sign displaying both miles and kilometers on Interstate 95 in Maine Highway speed limits are posted in miles per hour and distances are largely displayed in miles, yards, or feet, although a few dual mile/km signs can be found, mostly remaining from demonstration projects that are no longer supported.[104] One exception is Interstate 19 in Arizona, which is almost completely signed in metric, except for speed limit signs. Signage on this road is being converted back to customary units as it is replaced. Another exception is the turnpike section of Delaware Route 1, which uses a kilometer-based system, in anticipation of the mid-1990s conversion in the U.S. to the metric system, which did not happen.[105] Distances were originally signed in kilometers, but have since been replaced with miles in 1995 and standard mile-markers in 2003. The exit numbers have remained metric starting at Dover Air Force Base northward to Interstate 95. The 2000, 2003, and 2004[106] editions of the Manual on Uniform Traffic Control Devices (MUTCD) were published using both metric and US customary units. Metric signs, including speed signs in kilometers per hour, were displayed in the manual although they were not normally used on the roads and there was no definite plan to convert to metric. For visual distinction, regulatory and advisory metric speed signs have black circles around the numbers followed by "km/h" and other regulatory metric signs have yellow plates reading "metric" in black capitals on top of the main signs. Metric signs and metric measurements were removed for the 2009 edition and replaced with an appendix of metric conversion tables. This is in marked contrast to the position in the (largely metric) United Kingdom, where metric road signs are prohibited by law (except for those denoting widths and height restrictions, which include both metric and imperial units). Speed limit signs in both mph and km/h in Blaine, Washington Newer signs on state highways on the Hawaiian island of Kaua'i also include distances in both miles and kilometers.[107] Mile markers along highways on the Island of Hawaii will indicate both units whenever the whole kilometer corresponds approximately with the whole mile (e.g., 5 mi/8 km). In Houston, Texas, many speed limits have km/h signs underneath the MPH signs. These are located near both airports (Bush Intercontinental and Hobby) and in the Texas Medical Center. The U.S. territory of Puerto Rico generally uses American-style (MUTCD) signs with metric measurement on highways, displaying kilometer posts and distances in km, yet speed limit signs are in miles per hour. The Maine Turnpike used to use metric measurements on its highway signs in addition to customary measurements, partly to assist the large numbers of Canadian tourists who visit Maine's beaches. As of 2017 onwards, new or replaced signs include the distances in miles only.[108] The first signs in metric in the United States were posted on February 12, 1973, on Interstate 71 in Ohio.[109] Gasoline and diesel fuel are sold by the U.S. gallon, and fuel economy is rated in miles per gallon (MPG). In most other countries, using the metric system, fuel consumption is measured in liters per 100 kilometers or kilometers per liter. The European Union official standard is liters per 100 km.[110] Stations in Port Roberts, Washington, a short, noncontiguous peninsula that is road-accessible from the rest of the state of Washington only by crossing into Canada, sells its gasoline from pumps calibrated to dispense in liters, with some stations advertising prices in both CAD and USD. Gasoline is dispensed in liters in Puerto Rico. Automobile crankcase oil is sold by the quart, antifreeze by the ounce (fluid), and air conditioning refrigerant by the ounce (mass). Windshield wiper replacement blades are measured in inches. Domestic airline flights are assigned altitudes in feet and measure speed in knots. Nautical charts show depth in fathoms and use the nautical mile for distance. (One minute of arc of latitude at the radius of the earth at sea level was the standard for one nautical mile until about 1929. The nautical mile is now defined as exactly 1,852 meters.) Railroads use the standard gauge of 4 feet 8+1⁄2 inches, as does most of Europe (where it is expressed instead as 1,435 mm). MPH and smaller km/h values on speedometer U.S. Federal Motor Vehicle Safety Standard 101, which governs vehicle controls and displays, permits speedometers to display miles per hour (MPH) or both MPH and km/h.[111] In practice, most U.S.-market vehicles have mile odometers and dual-labeled speedometers with miles-per-hour as the primary calibration. Some 2000s era Buicks have a single speed gauge with a button on the instrument panel to switch the scale between MPH and km/h. Other vehicles have digital speedometers which can be set to read out speeds in either MPH or km/h. Another common unit of speed is meters per second (m/s), used especially for lifts and cable cars. Odometers are permitted to record miles or kilometers, but must be clearly labeled as to which unit they record. Vehicle capacity sticker Tire inflation for passenger cars is typically about 30 pounds per square inch (psi) or 207 kilopascals (kPa). This is displayed on tires beside the metric equivalent. Post model year 2006 regulations also mandate an international standard "Tire and Loading Information" sticker which give capacities in SI units followed by customary equivalents.[112][113] The long-distance trail Mid State Trail has used metric units exclusively in its trail guide since 1973.[citation needed] This section does not cite any sources. Please help improve this section by adding citations to reliable sources. Unourced material may be challenged and removed. (June 2023) (Learn how and when to remove this message) Municipal volumetric water measurements, including city water flow and cost per unit on a residential water bill, can either be measured in gallons, cubic feet, or cubic meters, with gallons being the most commonly used. Water bottles for personal use can have their capacity measured in fluid ounces or liters. For ounces, the measurements are typically in multiples of 8, for example 32 fl oz and 40 fl oz, which correspond closely to common metric variants including 1 liter and 1.2 liters. Rainfall is usually measured based on the height from the ground in inches.[114] Other units such as millimeters, and other measurement types such as gallons per square foot or liters per square meter, are significantly less common. Some measurements are reported in units derived from both customary and metric units. For example: Heat rate from a power plant: BTU/kWh[115] Federal automobile exhaust emission standards: grams per mile[116] Caffeine in beverages: milligrams per (fluid) ounce[117] A standard method for sizing tires combines millimeters for overall width and inches for the wheel diameter on which they fit.[118] In lighting, light bulbs use eighths of an inch for bulb diameter and full inches for fluorescent tube lengths, while the socket is always in millimeters (for example, the standard "medium Edison screw" is E26). On recently-introduced Christmas lights millimeters are often used with small globe-shaped bulbs (G30 and G40), and with miniature LED sets, where the standard T134 (732-inch tube) ones are sometimes called M5 (5 mm miniature; not to be confused with M5 thread). For properties understood more recently, such as those related to electricity, there is no traditional unit; international units are always used, often in combination with U.S. customary units. One among many examples is in Table 8, chapter 9, of the National Electrical Code Handbook (8th ed.), where resistance of conductors per unit length is given in ohms per thousand feet. Other units are based on customary units, but use power-of-ten factors and metric prefixes. For example, distance to target for a U.S. submarine is expressed in kiloyards (kyd) rather than some combination of miles, yards, and feet.[172] Telephone transmission line length and loop distances are measured in kilofeet.[119] In some fields of civil engineering (especially structural engineering), and architecture, large loads and forces (such as the weight of a building or the amount of load applied to a column) are measured in kips (kilopounds or 1000 pounds-force) instead of short tons-force (2000 pounds-force), which are used in virtually all other non-metric industries in the United States, as well as in common usage among the public, when dealing with large values of force. The continuing use of U.S. customary units has caused writers to speculate in fiction set in the future about the adoption of the metric system. Many authors have assumed that the United States and the human race in general will use metric units. Others have assumed the continued use of U.S. customary units or have not taken metrication into account. Writers sometimes use customary units simply because American readers and watchers will understand the measurements; other times, they are simply used by accident. The 1966 show Star Trek, for instance, initially used U.S. customary units despite multiple Earth national origins and a setting in the 23rd century. Later, starting with "The Changeling", metric measures were used, albeit inconsistently. Later sequels of the show, such as Star Trek: The Next Generation, and Star Trek: Enterprise (set in the 22nd century), used the metric system exclusively. Both the metric system and attitudes in the U.S. toward the metric system are a target of humorous jabs in shows such as The Simpsons,[120] Futurama[121] and The Big Bang Theory.[122] A Saturday Night Live sketch titled "Decabets", released at the height of the metrication movement, lampooned the different metric measurements by introducing a new alphabet consisting of only ten letters. In the 1994 film Pulp Fiction, Vincent Vega (John Travolta) tells Jules Winnfield (Samuel L. Jackson) that Europe is "a little different", because for example in Paris, a "Quarter Pounder with Cheese" is instead known as a "Royale with Cheese" as "they got the metric system. They wouldn't know the fuck a Quarter Pounder is". Later, Jules compliments the intelligence of one of their victims, after he correctly surmises that French use the metric system is what precludes the term "Quarter Pounder". Popular Science's September 2003 edition listed NIST's "Metric System Advocate" on its list of the "Worst Jobs in Science".[123] U.S. Metric Association Frank Mankiewicz Lyn Nofziger Metrication opposition Mendenhall Order Plan for Establishing Uniformity in the USA, 1790 report including proposal for decimal system based on the foot The Metric Marvels United States customary units United States Public Land Survey System US Metric Association ^ Bearce, Henry Walter (May 21, 1926). "A Fundamental Basis for Measurements of Length" (PDF). Scientific Papers of the Bureau of Standards. 21 (S553): 396. doi:10.6028/nbsscpaper.221. Archived (PDF) from the original on December 6, 2020. Retrieved December 17, 2023. In the United States the basic relation officially recognized is that contained in the law of July 28, 1866, and set forth in the Mendenhall order of April 5, 1893; namely... ^ "Metric Conversion Act of 1975". U.S. Metric Association. June 25, 2022. ^ a b "Metric (SI) Program". NIST. 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"The Litter Bowl: The First NCAA Football Game To Use The Metric System". ^ "USA Ultimate Procedure DSWG-002 Flight Test Pool Testing Criteria" (PDF). USA Ultimate. p. 2. Retrieved February 20, 2024. ^ "IWF Technical and Competition Rules & Regulations" (PDF). International Weightlifting Federation. p. 14. Retrieved February 20, 2024. ^ "50th Anniversary of the Interstate Highway System - Frequently Asked Questions". Fhwa.dot.gov. Retrieved August 2, 2011. ^ "HIGHWAY SIGNS: Conversion to Metric Units Could Be Costly". United States General Accounting Office. July 1995. Retrieved October 16, 2015. ^ "Standard Highway Signs, 2004 Edition, Metric Version". United States Department of Transportation - Federal Highway Administration. 2004. Archived from the original on June 24, 2023. Retrieved February 20, 2024. ^ Oscar Voss (January 21, 2010). "Hawaii Highways - Road Photos - Introduction (page 1 of 2)". Hawaiihighways.com. 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Fry asks, "Is that Fahrenheit or Celsius?" to which the farmer replies, "First one, then the other." Another is in "I, Roommate", when Calculon attempts to put a ring on Monique's finger; when it fits, she replies, "It fits! But then, you must know that I'm" "Metric? I've always known, but for you, my darling, I'm willing to convert." ^ Season 4 Episode 07 "Apology Insufficiency"; Sheldon: "Ethyl alcohol. 40 milliliters." Penny: "I'm sorry, honey. I don't know milliliters." Sheldon: "Ah. I blame President James Jimmy Carter. He started America on a path to the metric system but then just gave up. He wonders why he was a one-term president." ^ Speed, William (September 8, 2003). "The Worst Jobs in Science 2003 | Popular Science". Popsi.com. Retrieved August 2, 2011. "A Metric America: A decision whose time has come" (PDF). U.S. NBS – NBS SP 345. Dept. of Commerce, National Bureau of Standards. July 1971. Archived from the original (PDF) on July 23, 2014. Retrieved April 10, 2025. Alt URL The United States and the Metric System (LC 1136) nist.gov Archive.org The Metric System in the United States Archived June 11, 2017, at the Wayback Machine A Metric America: A Decision Whose Time Has Come on nist.gov Archive.org Metric Conversion Act of 1975 on nist.gov Archive.org www.us-metric.org—U.S. Metric Association (mirror link) Mean Mr Metric—Satire about the (non)conversion to metric units. One of the highest scoring submissions to the Internet Oracle. Originally written by Jim Palfreyman in October 1991. Weights & Measures Archived December 25, 2010, at the Wayback Machine Examples of metric roadsigns in the U.S. www.metrication.us—Metrication.us site at Archive.org www.metric4us.com—Metric 4 US! site Retrieved from " Although U.S. customary units have been defined in terms of metric units since the 19th century, as of 2021 the United States is one of only three countries (the others being Myanmar and Liberia) that have not officially adopted the metric system as the primary means of weights and measures. Does the US use Fahrenheit or Celsius? Virtually every country on earth aside from the United States measures temperature in Celsius. This makes sense: Celsius is a reasonable scale that assigns freezing and boiling points of water with round numbers, zero and 100. In Fahrenheit, those are, incomprehensibly, 32 and 212. Is Fahrenheit only used in US? Fahrenheit is used in the United States, its territories and associated states (all served by the U.S. National Weather Service), as well as the Cayman Islands and Liberia for everyday applications. For example, U.S. weather forecasts, food cooking, and freezing temperatures are typically given in degrees Fahrenheit. Why does America use imperial? Why the US uses the imperial system. Because of the British, of course. When the British Empire colonized North America hundreds of years ago, it brought with it the British Imperial System, which was itself a tangled mess of sub-standardized medieval weights and measurements. Why the US should not switch to the metric system? Expensive. The expense of the U.S. changing over to the metric system translates into changed measurements on all packaged products, starting with food. The change would also impact housing and lot sizes, the measurement of temperatures with the new use of Celsius, and the change of mileage and speed signs. Is Liberia metric? Myanmar and Liberia are the only other countries in the world that haven't officially adopted the metric system yet. In both countries, metric measurements are used alongside imperial ones. What measuring system does the U.S. use? The U.S. is one of the few countries globally which still uses the Imperial system of measurement, where things are measured in feet, inches, pounds, ounces, etc. Why is U.S. not using metric system? The biggest reasons the U.S. hasn't adopted the metric system are simply time and money. When the Industrial Revolution began in the country, expensive manufacturing plants became a main source of American jobs and consumer products. What's better Fahrenheit or Celsius? This means Celsius is 1.8 times larger than Fahrenheit. To put another way, 1 degree Fahrenheit is 5/9 degree Celsius. Despite the pretty large differences between one another, these two temperature scales intersect at -40 degrees, meaning that -40 degrees Fahrenheit is the same as -40 degrees Celsius. What countries use F? The countries and territories that use the Fahrenheit scale are: United States. Bahamas. Cayman Islands. Liberia. Palau. The Federated States of Micronesia. Marshall Islands. How are scales used in the United States? Typical scales used in the United States are: The following scales are generally grouped in pairs using the same dual-numbered inline line (one scale is read from the right, and the other scale is read from the left): Architect's scale rulers used in Britain and other metric countries are marked with ratios without reference to a base unit. Which is the best scale for mapping the United States? various scales. The scale used for most U.S. topographic mapping is 1:24,000. Maps published at this scale cover 7.5 minutes of latitude and 7.5 minutes of longitude; they are commonly called "7.5-minute quadrangle" maps. Map coverage for the United States has been completed at this scale, except for Puerto Rico, which is mapped at 1:20,000 How does the education in the United States grading scale work? Education in the United States Grading Scale. Generally the scores for individual assignments and tests are recorded for each student in a grade book, along with the maximum number of points for each assignment. At any time, the total number of points for a student when divided by the total number of possible points produces a percent grade... What's the most common grade scale in school? Although grading scales usually differ from school to school, the most common grade scale is letter grades—"A" through "F"—derived from a scale of 0-100 or a percentile.