

and when like proof shall be furnished that another section of ten miles of said road in said States or on the said branches respectively connecting with the preceding section is completed as aforesaid, the Secretary of the Interior shall issue patents in like manner as *as in case of the first completed sections*, and so on from time to time until the whole is completed as herein provided, when the Secretary of the Interior shall issue patents for all the remaining lands herein granted, not exceeding the aggregate amount provided for and located as required by sections one and two of this act: *And provided further*, That if one section of twenty miles of each of said railroads and branches shall not be fully constructed and completed as a first class railroad within three years from the time this act becomes a law, and at least one section of twenty miles on each of said roads and branches in each year thereafter, and the whole of said roads and branches within ten years from the time this act shall take effect, then and in either of said cases all the lands granted or the grant of which is revived or extended by this act, and which at the time shall be unpatented to or for the benefit of the road or company making or suffering such failure, shall revert to the United States.

SEC. 3. *And be it further enacted*, That all the lands mentioned in this act, and hereby granted, are hereby reserved from entry, pre-emption, or appropriation to any other purpose than herein contemplated, for the said term of ten years from the passage of this act: *Provided*, That all lands heretofore given to the State of Missouri for the construction of the Cairo and Fulton railroad, or for the use of said road lying in the State of Missouri, and all lands proposed to be granted by this act for the use or in aid of the road herein named, and lying in said State of Missouri, shall be granted and patented to the said State whenever the road shall be completed through said State, which lands may be held by said State and used toward paying the State the amount of bonds heretofore issued by it to aid said company, and all interest accrued or to accrue thereon: *Provided further*, That the provisions of this act, so far as the same relate to the Memphis and Little Rock and the Little Rock and Fort Smith branches of said road, shall not take effect until the Secretary of the Interior shall make and file a certificate in his office and the office of the Secretary of State of Arkansas, stating that the companies or corporations claiming the benefit of this act in behalf of said branches have reorganized their boards of directors in a lawful manner, and, after such reorganization, that they have respectively rescinded all acts, resolutions, or other proceedings, transferring the lands, rights, or privileges of such corporations or companies to any convention, State, or authority recognizing or acting in concert with, or under the authority of the late so-called confederate states of America.

APPROVED, July 28, 1866.

July 28, 1866.

CHAP. CCCI.—*An Act to authorize the Use of the Metric System of Weights and Measures.*

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That from and after the passage of this act it shall be lawful throughout the United States of America to employ the weights and measures of the metric system; and no contract or dealing, or pleading in any court, shall be deemed invalid or liable to objection because the weights or measures expressed or referred to therein are weights or measures of the metric system.

SEC. 2. *And be it further enacted*, That the tables in the schedule here-to annexed shall be recognized in the construction of contracts, and in all legal proceedings, as establishing, in terms of the weights and measures now in use in the United States, the equivalents of the weights and measures expressed therein in terms of the metric system; and said tables may be lawfully used for computing, determining, and expressing in customary weights and measures the weights and measures of the metric system.

If twenty miles are not completed in three years, and at least twenty miles each year afterwards, and the whole in ten years, lands then unpatented to revert to the United States.

Lands hereby granted to be reserved from entry, pre-emption, &c.

Lands given to Missouri for Cairo and Fulton railroad.

When to be patented to the State; may be held and used toward paying certain State bonds.

When this act takes effect as relates to the Memphis and Little Rock, and Little Rock and Fort Smith branches of road.

Use of weights and measures of the metric system authorized.

Tables of equivalents.

Measures of  
length;

## MEASURES OF LENGTH.

METRIC DENOMINATIONS AND VALUES.		EQUIVALENTS IN DENOMINATIONS IN USE.
Myriameter . . . . .	10,000 meters.	6 2137 miles.
Kilometer . . . . .	1,000 meters.	0.62137 miles, or 3280 feet and ten inches.
Hectometer . . . . .	100 meters.	328 feet and 1 inch.
Dekameter . . . . .	10 meters.	393.7 inches.
Meter . . . . .	1 meter.	39.37 inches.
Decimeter . . . . .	$\frac{1}{10}$ of a meter.	3.937 inches.
Centimeter . . . . .	$\frac{1}{100}$ of a meter.	0.3937 inches.
Millimeter . . . . .	$\frac{1}{1000}$ of a meter.	0.0394 inches.

of surface;

## MEASURES OF SURFACE.

METRIC DENOMINATIONS AND VALUES.		EQUIVALENTS IN DENOMINATIONS IN USE.
Hectare . . . . .	10,000 square meters	2.471 acres.
Are . . . . .	100 square meters	119.6 square yards.
Centare . . . . .	1 square meter	1550 square inches.

of capacity.

## MEASURES OF CAPACITY.

METRIC DENOMINATIONS AND VALUES.			EQUIVALENTS IN DENOMINATIONS IN USE.	
Names.	Number of liters.	Cubic measure.	Dry measure.	Liquid or wine measure.
Kiloliter, or stere	1,000	1 cubic meter . . . . .	1.308 cubic yards . . . . .	264.17 gallons.
Hectoliter . . . . .	100	$\frac{1}{10}$ of a cubic meter . . . . .	2 bushels and 3.35 pecks . . . . .	26.417 gallons.
Dekaliter . . . . .	10	10 cubic decimeters . . . . .	9.08 quarts . . . . .	2.6417 gallons.
Liter . . . . .	1	1 cubic decimeter . . . . .	0.908 quarts . . . . .	1.0567 quarts.
Deciliter . . . . .	$\frac{1}{10}$	$\frac{1}{10}$ of a cubic decimeter . . . . .	6.1022 cubic inches . . . . .	0.845 gills.
Centiliter . . . . .	$\frac{1}{100}$	10 cubic centimeters . . . . .	0.6102 cubic inches . . . . .	0.338 fluid ounces.
Milliliter . . . . .	$\frac{1}{1000}$	1 cubic centimeter . . . . .	0.061 cubic inches . . . . .	0.27 fluid drams.

Weights

## WEIGHTS.

METRIC DENOMINATIONS AND VALUES.			EQUIVALENTS IN DENOMINATIONS IN USE.
Names.	Number of grams.	Weight of what quantity of water at maximum density.	Avoirdupois weight.
Millier or Tonneau . . . . .	1,000,000	1 cubic meter . . . . .	2204.6 pounds.
Quintal . . . . .	100,000	1 hectoliter . . . . .	220.46 pounds.
Myriagram . . . . .	10,000	10 liters . . . . .	22.046 pounds.
Kilogram or kilo . . . . .	1,000	1 liter . . . . .	2.2046 pounds.
Hectogram . . . . .	100	1 deciliter . . . . .	3.5274 ounces.
Dekagram . . . . .	10	10 cubic centimeters . . . . .	0.3627 ounces.
Gram . . . . .	1	1 cubic centimeter . . . . .	15.432 grains.
Decigram . . . . .	$\frac{1}{10}$	$\frac{1}{10}$ of a cubic centimeter . . . . .	1.5432 grains.
Centigram . . . . .	$\frac{1}{100}$	10 cubic millimeters . . . . .	0.1543 grains.
Milligram . . . . .	$\frac{1}{1000}$	1 cubic millimeter . . . . .	0.0154 grains.

APPROVED, July 28, 1866.