



Cattle Producer's Handbook

Miscellaneous Section

1280

Conversions for Commonly Used Weights and Measures

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Formulas for Converting Measurements

The following formulas contained in the tables that follow can be used to convert from one unit of measure to another by multiplying the units by the conversion factor given. To make opposite conversions in the tables below, divide by the number given instead of multiplying.

In addition, several electronic conversion calculators are available on the Internet. Simply use the key words "conversion calculator" on any search engine. The following are a few agricultural conversion web sites that may prove useful:

1. ATTRA—National Sustainable Agriculture Information Service:

<http://attra.ncat.org/attra-pub/measurements/>

2. ABE Unit Conversion Calculator, Agricultural and Biological Engineering Mississippi State University:

<http://www.abe.msstate.edu/~fto/calculator/index.html>

For more comprehensive information on weights, measures, and conversion factors, refer to the USDA Agricultural Handbook #697, "Weights, Measures and Conversion Factors for Agricultural Commodities and Their Products."

<http://www.ers.usda.gov/publications/ah697/ah697.pdf>

Metric System

In the metric system of weights and measures, designations of multiples and subdivisions of any units may be arrived at by combining the names of the units with the prefixes **deka**, **hecto**, and **kilo**, meaning 10, 100, and 1,000, and with **deci**, **centi**, and **milli** meaning, respectively, one-tenth, one-hundredth, and one-thousandth.

LENGTH

To change	To	Multiply by
inches	centimeters	2.540
inches	millimeters	25.400
centimeters	inches	0.394
meters	inches	39.370
feet	centimeters	30.480
feet	meters	0.305
feet	yards	3.000
yards	meters	0.914
meters	yards	1.094
miles	kilometers	1.609
kilometers	miles	0.621

AREA

To change	To	Multiply by
square inches	square centimeters	6.452
square centimeters	square inches	0.155
square feet	square meters	0.093
square yards	square meters	0.836
square meters	square yards	1.196
square miles	square kilometers	2.590

VOLUME

To change	To	Multiply by
ounces (fluid)	cubic centimeters	29.573
cubic centimeters (cc)	ounces (fluid)	0.034
quarts	liters	0.946
liters	quarts	1.057
gallons	liters	3.785
cubic inches	cubic centimeters (cc)	16.387
cubic yards	cubic meters	0.765
cubic meters	cubic yards	1.308