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Test Plot Coversion Tables

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COLLEGE OF AGRICULTURE & BIOLOGICAL SCIENCES / SOUTH DAKOTA STATE UNIVERSITY / USDA

TEST PLOT CONVERSION TABLES

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ABBREVIATIONS

mile = mi foot = ft inch = in yard = yd acre = A rod = rd	<pre>liter = l milliliter = ml millimeter = mm cubic centimeter = cc meter = m centimeter = cm</pre>	<pre>quart = qt pint = pt gallon = gal kilogram = kg kilometer = km Fahrenheit = F</pre>	<pre>gram = g bushel = bu pounds = lb ounce = oz ton = T metric ton = MT</pre>
rod = rd hectare = ha	centimeter = cm	Celsius = C	metric con - mi

CAPACITY MEASURE, LIQUID

Fluid ounce = 2 tablespoons Fluid ounce = 6 teaspoons Fluid ounce = 29.57 milliliters Fluid ounce = 1.805 cu in Fluid ounce = 29.57 cubic cm	Cup = 8 fl ounces Cup = 0.5 pint Cup = 236.5 milliliters Cup = 0.25 quart Cup = 16 tablespoons Cup = 48 tablespoons	Quart = 32 fl ounce Quart = 2 pints Quart = 57.75 cu in Quart = 946 milliliters Quart = 0.25 gallons Quart = 0.94 liters
Teaspoon = 5 milliliters Teaspoon = 0.17 fl ounce Teaspoon = 60 drops Tablespoon = 3 teaspoons Tablespoon = 15 milliliters Tablespoon = 0.5 fl ounce Cu ft = 29.22 liq qt	Pint = 2 cups Pint = 16 fl ounce Pint = 473 milliliters Pint = 28.87 cu in Pint = 0.125 gallon Pint = 0.473 liters Pint = 32 tablespoons	Gallon = 128 fl ounce Gallon = 231 cu in Gallon = 3,785 milliliters Gallon = 4 quarts Gallon = 0.1337 cubic feet Gallon = 16 cups Liter = 2.1 pints (lig.) Liter = 1.06 quarts (liq.) Liter = 1,000 cu cm Liter = 1,000 milliliter

CAPACITY MEASURE, DRY

Liter = 0.9081 dry quart Liter = 0.028378 bushel			yard = 3 feet rod = 16.5 feet rod = 5.5 yards rod = 5.03 meters meter = 39.37 inches	
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LINEAR MEASURE

GENERAL CONVERSIONS

1 kilogram/hectare = .89 lbs/acre 1 lb/acre = 1.12 kilogram/hectare 1 kilogram = 1000 grams = 2.2 lbs 1 gram = 1000 milligrams = .035 oz 1 milliliter = 1 cubic centimeter	<pre>1 lb = 453.6 grams 1 lb = 16 ounces 1 ounce = 28.35 grams 1 pt of water weighs approximately 1 lb 1 gallon of water weighs approximately 8.34 lbs</pre>
<pre>1 milliliter or cubic centimeter = .034 fluid ounce 1 milliliter or cubic centimeter of water weighs approximately 1 gram 1 liter of water weighs 1 kilogram</pre>	<pre>.1 percent = 1000 ppm = 1000 milligrams/liter .01 percent = 100 ppm = 100 milligrams/liter .001 percent = 10 ppm = 10 milligrams/liter .0001 percent = 1 ppm = 1 milligram/liter</pre>

CUBIC MEASURE

Cu ft = 1,728 cu in Bushel = 2150.4 cu in Peck = 537.6 cu in Cu ft = 0.037 cu yd Bushel = 1.24 cu ft Ounce (liq) = 1.805 cu in Cu ft = 7.48 gallons Bushel = approx. 1/20 cu yd Pint (liq) = 28.87 cu in Cu ft = 59.84 pints (liq) Cu ft = 29.92 quarts (liq) Bushel = 35.24 liters Pint (1iq) = 473 cu cm Quart (dry) = 67.2 cu in Quart (liq) = 57.7 cu in Quart (liq) = 946 cu cm Cu ft = 25.71 quarts (dry) Liter = 1,000 cu cm Cu ft = 0.804 bushelsLiter = 0.035 cu ft Cu ft = 28.32 liters Liter = 61.02 cu in Lb water = 0.016 cu ft Cu yd = 27 cu ftGallon = 269 cu in (dry)Lb water = 27.68 cu in Cu yd = 46.656 cu inGallon = 3785 cu cm Cu yd = 202 gallonsGallon = 0.134 cu ft Cu yd = 1,616 pints (1iq) Gallon = 231 cu in (liq) Cu yd = 808 quarts (liq)

SQUARE MEASURE

Cu yd = 21.71 bushels

Square foot = 144 square inches Square yard = 9 square feet Square rod = 272.25 square feet Square rod = 30.25 square yards

Square mile = 640 acres Square mile = 259 hectares Acre = 43,560 square feet Acre = 4,840 square yards Acre = 160 square rods Acre = 0.404687 hectare

Acre = area 208.7 feet square

Acre = area 16.5 feet x 2640 feet or 1/2 mile

Acre = 1 rod x 1/2 mile Hectare = 2.47 acres

CONVERSION FACTORS

CONVERSION FACTORS					
	LENGTH			AREA	
Known Value in ft yd mi km	Conversion Factor 25 30 0.9 1.6 .6	Desired Value mm cm m km mi	Known Value in2 ft2 ft2 yd2 mi2 cm2 m2 km2	Conversion Factor 6.5 0.09 .8 2.6 0.16 1.2 0.4	Desired Value cm2 m2 m2 m2 km2 in2 yd2 yd2 mi²
Known Value oz pt qt gal 1 1	30 0.47 0.95 3.8 2.1 1.06 0.26	Desired Value ml l l l pt qt gal	Known Value oz lb T g kg	WEIGHT Conversion Factor 28 0.45 0.9 0.035 2.2	Desired Value g kg MT oz lb
	TEMPERATURE			GENERAL	
(OF32)	Conversion Factor 0.556 1.8	Desired Value OC (+32 OF.)	<u>Known Value</u> Mi per hour Mi per hour	Conversion Factor 88 1.467	Desired Value Ft per minute Ft per second

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