DEPARTMENT OF COMMERCE

CIRCULAR

OF THE

BUREAU OF STANDARDS

S. W. STRATTON, Director

No. 47

UNITS OF WEIGHT AND MEASURE

DEFINITIONS AND TABLES OF EQUIVALENTS

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CONTENTS

I. INTRODUCTION

With this edition the Tables of Equivalents of United States Customary and Metric Weights and Measures, formerly published as one of the miscellaneous publications of this Bureau, becomes one of the series of Circulars of the Bureau of Standards. Several additions and changes are made in the contents.

One of these is the introduction of complete definitions of all the fundamental units and of the most common multiples and submultiples. This is followed by a section calling attention to the distinction between the *units* of weight and measure and the *standard* weights and measures. Tables are also introduced giving the interrelation of all the units of one kind—for example, of all the usual length units.

Another change that has been made has been that of recomputing all tables involving the liter to conform to the relation of 1 liter = 1.000027 cubic decimeters, a relation determined at the International Bureau of Weights and Measures since the earlier editions of these tables.[1] The United States gallon and bushel, being defined as volumes equivalent to a certain number of cubic inches, their equivalents in liters or hectoliters have heretofore been computed on the assumed relation that 1 liter was equal to 1 cubic decimeter, which, for practically all purposes, is sufficiently exact. The determination of this relation being now completed, however, it has been decided to give the relations of United States liquid and dry capacity units in terms of metric capacity units, and vice versa, in the more exact terms.

In the construction of the tables in this circular, when the fundamental relation of the units furnished directly a reduction factor for use in determining the multiples of the units, this factor was used in its fundamental form, as, for example, that 1 meter = 39.37 inches. Reduction factors which it was necessary to obtain, however, by multiplication, division, powers or roots, etc., of the fundamental relations were usually carried out to a greater degree of accuracy than that to which it is usually possible to make measurements, for convenience

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[1] Trav. et Mém. Bur. Int. des Poids et Mesures, 13.

in computing the multiples to the accuracy desired. For example, to convert 606 hectoliters to bushels:

$$1 \text{ hectoliter} = 100 \text{ liters}$$
$$1 \text{ liter} = 1.000027 \text{ cubic decimeters}$$
$$1 \text{ decimeter} = 3.937 \text{ inches}$$
$$1 \text{ cubic decimeter} = (3.937)^3 \text{ inches}$$
$$1 \text{ bushel} = 2150.42 \text{ cubic inches}$$

Therefore 606 hectoliters $= \dfrac{606 \times 100 \times 1.000027 \times (3.937)^3}{2150.42}$

$$= 1719.718 \text{ bushels.}$$

In the actual construction of the tables, however, instead of working out such an extensive computation each time, the reduction factor, 1 hectoliter $= 2.8378189$ bushels, is used in place of the factor $\dfrac{100 \times 1.000027 \times (3.937)^3}{2150.42}$ given above.

When the tables do not give the equivalent of any desired quantity directly and completely the equivalent can usually be obtained, without the necessity of making a multiplication of these reduction factors, by using quantities from several tables, making a shift of decimal points if necessary, and merely adding the results. For example, to obtain the equivalent of 1345 feet 11⅜ inches in meters,

From the table on page 24, 134 feet $= 40.84328$ meters
Therefore 1340 feet $= 408.4328$ meters
From the same table, 5 feet $= 1.52400$ meters

From the table of equivalents of inches in meters, on page 25, or by using the equivalent for 1 inch in the table on page 15 and moving the decimal point one place to the right and adding the equivalent for 1 inch to the result,

11 inches $= 0.27940$ meter.

From the table on page 20, ⅜ inch $= 9.525$ millimeters $= 0.009525$ meter.

1340 feet	= 408.4328	meters
5 feet	= 1.52400	meters
11 inches	= 0.27940	meter
⅜ inch	= 0.00952	meter

Adding, 1345 feet 11⅜ inches $= 410.2457$ meters.

II. FUNDAMENTAL EQUIVALENTS

The fundamental unit of the metric system is the METER, the unit of length. From this the units of capacity (LITER) and of weight (GRAM) were derived. All other units are the decimal subdivisions or multiples of these. These three units are simply related, e. g., for all practical purposes 1 CUBIC DECIMETER equals

1 LITER and 1 LITER of water weighs 1 KILOGRAM. The metric tables are formed by combining the words "METER," "GRAM," and "LITER" with the six numerical prefixes, as in the following tables:

Prefixes		Meaning			Units
milli-	=	*one-thousandth*	$\frac{1}{1000}$	.001	
centi-	=	*one hundredth*	$\frac{1}{100}$	.01	*"meter" for length.*
deci-	=	*one-tenth*	$\frac{1}{10}$	.1	
Unit	=	*one*		1	*"gram" for weight or mass.*
deka-	=	*ten*	$\frac{10}{1}$	10	
hecto-	=	*one hundred*	$\frac{100}{1}$	100	*"liter" for capacity.*
kilo-	=	*one thousand*	$\frac{1000}{1}$	1000	

All lengths, areas, and cubic measures in the following tables are derived from the international meter, the legal equivalent being **1 meter = 39.37 inches** (law of July 28, 1866). In 1893 the United States Office of Standard Weights and Measures was authorized to derive the yard from the meter, using for the purpose the relation legalized in 1866, **1 yard** $= \frac{3600}{3937}$ **meter**. The customary weights are likewise referred to the kilogram (Executive order approved Apr. 5, 1893). This action fixed the values, inasmuch as the reference standards are as perfect and unalterable as it is possible for human skill to make them at this time.

All capacities are based on the equivalent 1 liter equals 1.000027 cubic decimeters. The decimeter is equal to 3.937 inches in accordance with the legal equivalent of the meter given above. The gallon referred to in the tables is the United States gallon of 231 cubic inches. The bushel is the United States bushel of 2,150.42 cubic inches. These units must not be confused with the British units of the same name which differ from those used in the United States. The British gallon is approximately 20 per cent larger and the British bushel 3 per cent larger than the corresponding units used in this country.

The customary weights derived from the international kilogram are based on the value 1 avoirdupois pound = 453.5924277 grams. This value is carried out further than that given in the law, but is in accord with the latter as far as it is there given. The value of the troy pound is based upon the relation just mentioned and also the equivalent $\frac{5760}{7000}$ avoirdupois pounds equals 1 troy pound.

III. DEFINITIONS OF UNITS

1. LENGTH

Fundamental Units

A METER (m) is a unit of length equivalent to the distance between the defining lines on the international prototype meter at the International Bureau of Weights and Measures when this standard is at the temperature of melting ice (0° C).

A YARD (yd.) is a unit of length equivalent to $\frac{3600}{3937}$ of a meter.

Multiples and submultiples

1 kilometer (km) = 1000 meters.
1 hectometer (hm) = 100 meters.
1 dekameter (dkm) = 10 meters.
1 decimeter (dm) = 0.1 meter.
1 centimeter (cm) = 0.01 meter.
1 millimeter (mm) = 0.001 meter = 0.1 centimeter.
1 micron (μ) = 0.000 001 meter = 0.001 millimeter.
1 millimicron (mμ) = 0.000 000 001 meter = 0.001 micron.
1 foot (ft.) = $\frac{1}{3}$ yard = $\frac{1200}{3937}$ meter.
1 inch (in.) = $\frac{1}{36}$ yard = $\frac{1}{12}$ foot = $\frac{100}{3937}$ meter.
1 link (li.) = 0.22 yard = 7.92 inches.
1 rod (rd.) = 5½ yards = 16½ feet.
1 chain (ch.) = 22 yards = 100 links = 66 feet = 4 rods.
1 furlong (fur.) = 220 yards = 40 rods = 10 chains.
1 statute mile (mi.) = 1760 yards = 5280 feet = 320 rods.
1 hand = 4 inches.
1 point = $\frac{1}{72}$ inch.
1 mil = 0.001 inch.
1 fathom = 6 feet.
1 span = 9 inches = ⅛ fathom.
1 cable length = 20 fathoms = 120 feet.
1 nautical mile
1 sea mile   } United States = 6080.20 feet = 1.151 553 statute
1 geographical mile }   miles = 1853.249 meters.

2. AREA

Fundamental Units

A SQUARE METER (m²) is a unit of area equivalent to the area of a square the sides of which are 1 meter.

A SQUARE YARD (sq. yd.) is a unit of area equivalent to the area of a square the sides of which are 1 yard.

Multiples and Submultiples

1 square kilometer (km²) = 1 000 000 square meters.

1 hectare (ha), or square hectometer (hm²) = 10 000 square meters.

1 are (a), or square dekameter (dkm²) = 100 square meters.

1 centare (ca) = 1 square meter.

1 square decimeter (dm²) = 0.01 square meter.

1 square centimeter (cm²) = 0.0001 square meter.

1 square millimeter (mm²) = 0.000 001 square meter = 0.01 square centimeter.

1 square foot (sq. ft.) = $\frac{1}{9}$ square yard.

1 square inch (sq. in.) = $\frac{1}{1296}$ square yard = $\frac{1}{144}$ square foot.

1 square link (sq. li.) = 0.0484 square yard = 62.7264 square inches.

1 square rod (sq. rd.) = 30.25 square yards = 272.25 square feet = 625 square links.

1 square chain (sq. ch.) = 484 square yards = 16 square rods = 100 000 square links.

1 acre (A.) = 4840 square yards = 160 square rods = 10 square chains.

1 square mile (sq. mi.) = 3 097 600 square yards = 640 acres.

3. VOLUME

Fundamental Units

A CUBIC METER (m³) is a unit of volume equivalent to a cube the edges of which are 1 meter.

A CUBIC YARD (cu. yd.) is a unit of volume equivalent to a cube the edges of which are 1 yard.

Multiples and Submultiples

1 cubic kilometer (km³) = 1 000 000 000 cubic meters.

1 cubic hectometer (hm³) = 1 000 000 cubic meters.

1 cubic dekameter (dkm³) = 1000 cubic meters.

1 stere (s) = 1 cubic meter.

1 cubic decimeter (dm³) = 0.001 cubic meter.

1 cubic centimeter (cm³) = 0.000 001 cubic meter = 0.001 cubic decimeter.

1 cubic millimeter (mm³) = 0.000 000 001 cubic meter = 0.001 cubic centimeter.

1 cubic foot (cu. ft.) = $\frac{1}{27}$ cubic yard.

1 cubic inch (cu. in.) = $\frac{1}{46656}$ cubic yard = $\frac{1}{1728}$ cubic foot.

1 board foot = 144 cubic inches = $\frac{1}{12}$ cubic foot.

1 cord (cd.) = 128 cubic feet.

4. CAPACITY

Fundamental Units

A LITER (l) is a unit of capacity equivalent to the volume occupied by the mass of 1 kilogram of pure water at its maximum density (at a temperature of 4° C, practically) and under the standard atmospheric pressure (of 760 mm). It is equivalent in volume to 1.000 027 cubic decimeters.

A GALLON (gal.) is a unit of capacity equivalent to the volume of 231 cubic inches. It is used for the measurement of liquid commodities only.

A BUSHEL (bu.) is a unit of capacity equivalent to the volume of 2150.42 cubic inches. It is used in the measurement of dry commodities only.[2]

Multiples and Submultiples

1 hectoliter (hl) = 100 liters.

1 dekaliter (dkl) = 10 liters.

1 deciliter (dl) = 0.1 liter.

1 centiliter (cl) = 0.01 liter.

1 milliliter (ml) = 0.001 liter = 1.000 027 cubic centimeters.

1 liquid quart (liq. qt.) = $\frac{1}{4}$ gallon = 57.75 cubic inches.

1 liquid pint (liq. pt.) = $\frac{1}{8}$ gallon = $\frac{1}{2}$ liquid quart = 28.875 cubic inches.

1 gill (gi.) = $\frac{1}{32}$ gallon = $\frac{1}{4}$ liquid pint = 7.21875 cubic inches.

1 fluid ounce (fl. oz.) = $\frac{1}{128}$ gallon = $\frac{1}{16}$ liquid pint.

1 fluid dram (fl. dr.) = $\frac{1}{8}$ fluid ounce = $\frac{1}{128}$ liquid pint.

1 minim (min. or ♏) = $\frac{1}{60}$ fluid dram = $\frac{1}{480}$ fluid ounce.

1 firkin = 9 gallons.

1 peck (pk.) = $\frac{1}{4}$ bushel = 537.605 cubic inches.

1 dry quart (dry qt.) = $\frac{1}{32}$ bushel = $\frac{1}{8}$ peck = 67.200 625 cubic inches.

1 dry pint (dry pt.) = $\frac{1}{64}$ bushel = $\frac{1}{2}$ dry quart = 33.600 312 5 cubic inches.

1 barrel (for apples)[3] = 7056 cubic inches = 105 dry quarts.

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[2] The above bushel is the so-called stricken or struck bushel. Many dry commodities are sold by heaped bushel, which is generally specified in the State laws to be the usual stricken bushel measure "duly heaped in the form of a cone as high as the article will admit" or "heaped as high as may be without special effort or design." The heaped bushel was originally intended to be 25 per cent greater than the stricken bushel.

[3] As fixed by United States statute, approved Aug. 3, 1912.

5. MASS

Fundamental Units

A KILOGRAM (kg) is a unit of mass equivalent to the mass of the international prototype kilogram at the International Bureau of Weights and Measures.

An AVOIRDUPOIS POUND (lb. av.) is a unit of mass equivalent to 0.453 592-427 7 kilogram.

A GRAM (g) is a unit of mass equivalent to one-thousandth of the mass of the international prototype kilogram at the International Bureau of Weights and Measures.

A TROY POUND (lb. t.) is a unit of mass equivalent to $\frac{5760}{7000}$ of that of the avoirdupois pound.

Multiples and Submultiples

1 metric ton (t) = 1000 kilograms.

1 hectogram (hg) = 100 grams = 0.1 kilogram.

1 dekagram (dkg) = 10 grams = 0.01 kilogram.

1 decigram (dg) = 0.1 gram.

1 centigram (cg) = 0.01 gram.

1 milligram (mg) = 0.001 gram.

1 avoirdupois ounce (oz. av.) = $\frac{1}{16}$ avoirdupois pound.

1 avoirdupois dram (dr. av.) = $\frac{1}{256}$ avoirdupois pound = $\frac{1}{16}$ avoirdupois ounce.

1 grain (gr.) = $\frac{1}{7000}$ avoirdupois pound = $\frac{10}{4375}$ avoirdupois dram = $\frac{1}{5760}$ troy pound.

1 apothecaries' pound (lb. ap.) = 1 troy pound = $\frac{5760}{7000}$ avoirdupois pound.

1 apothecaries' or troy ounce (oz. ap. or ℥, or oz. t.) = $\frac{1}{12}$ troy pound = $\frac{480}{7000}$ avoirdupois pound = 480 grains.

1 apothecaries' dram (dr. ap. or ℨ) = $\frac{1}{96}$ apothecaries' pound = ⅛ apothecaries' ounce = 60 grains.

1 pennyweight. (pwt.) = $\frac{1}{20}$ troy ounce = 24 grains.

1 apothecaries' scruple (s. ap. or ℈) = ⅓ apothecaries' dram = 20 grains.

1 metric carat[4] (c) = 200 milligrams = 0.2 gram.

1 short hundredweight (sh. cwt.) = 100 avoirdupois pounds.

1 long hundredweight (l. cwt.) = 112 avoirdupois pounds.

1 short ton (sh. tn.) = 2000 avoirdupois pounds.

1 long ton (l. tn.) = 2240 avoirdupois pounds.

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[4] See Bureau of Standards Circular No. 43, The Metric Carat, for a discussion of the metric carat and tables of the relations of the metric carat to the old carat of 205.3 milligrams in use in this country previous to July 1, 1913.

IV. STANDARDS FOR MEASUREMENT

Units of measurement should be distinguished from standards for measurement, particularly in the case of length and capacity. Units of length are fixed distances, independent of any other consideration, while length standards are affected by the expansion and contraction with changes of temperature of the material of which the standard may be composed. It is therefore necessary to fix upon some temperature at which the distance between the defining lines or end surfaces of the standards shall be equal to the unit. The same is true of standards of capacity, which at some definite temperature contain a given number of units of volume.

The temperature at which metric length standards are customarily made correct is 0° C, although 20° C is also used for steel tapes and some other standards intended for use at room or average outdoor temperatures.

The temperature at which standards of length of the customary system are made correct is 62° F.

For measurements of high precision it is also necessary to specify the manner of support of the standards, whether at certain points only or throughout their entire length, and in the case of tapes it is also necessary to give the tension applied to the tape when in use.

In the United States the capacity standards, both metric and customary, are made to hold the specified volumes at 4° C. Standards of capacity are usually made of brass so the capacity at any other temperature may be computed by the use of the coefficient of cubical expansion, usually assumed to be 0.000 054 per degree centigrade. In the purchase and sale of liquids a more important consideration than the temperature of the measures is the temperature of the liquid when measured, for the reason that the large coefficient of expansion of many liquids makes the actual mass of a given volume delivered vary considerably with temperature. For this reason, the custom of buying and selling liquids by weight instead of by measure is recommended. It is further recommended that, when liquids are sold by volume, 68° F or 20° C be adopted as the standard temperature of the liquid.

While the temperature of a weight does not affect its mass, it is nevertheless important that when two weights are compared in air they both be at the same temperature as the air. If there is a difference between the temperature of the air and the weights, convection currents will be set up and the readings of the balance will be thereby affected. Also, since weights are buoyed up by the surrounding air by amounts dependent upon their volumes, it is desirable that the weights of any set be of the same material. If two weights of the same density balance in air of a certain density they will balance in vacuo or in air of a different density.

Brass is the material most widely used for standard weights, although platinum is quite commonly used for weights of 1 gram or less. In the absence

of any knowledge as to the actual density of weights, those made of brass are assumed to have a density of 8.4 at 0° C, while those of platinum are assumed to have a density of 21.5 at 0° C.

V. SPELLING AND ABBREVIATION OF UNITS

The spelling of the names of units adopted by the National Bureau of Standards is that given in the list below.   The spelling of the metric units is in accordance with that given in the law of July 28, 1866, legalizing the metric system in the United States.

Following the names of each unit in the list below is given the abbreviation which the Bureau has adopted.   Attention is particularly called to the following principles:

1. The period is omitted after the abbreviations of the metric units, while it is used after those of the customary system.

2. The exponents, "^{2}" and "^{3}," are used to signify area and volume, respectively, in the case of the metric units instead of the longer prefixes "sq." or "cu." In conformity with this principle the abbreviation for cubic centimeter is "cm^3," instead of "c. c." or "c. cm."   The term "cubic centimeter" as used in chemical work is, in fact, a misnomer, since the unit actually used is the "milliliter," which has a slightly larger volume.   (See p. 4.)

3. The use of the same abbreviation for both singular and plural is recommended.   This practice is already established in expressing metric units and is in accordance with the spirit and chief purpose of abbreviations.

4. It is also suggested that, unless all the text is printed in capital letters, only small letters be used for abbreviations except in the case of A. for acre, where the use of the capital letter is general.

The list of the most common units of weight and measure and their abbreviations follows:

Unit	Abbreviation	Unit	Abbreviation	Unit	Abbreviation
acre	A.	dram, avoirdupois	dr. av.	ounce, avoirdupois	oz. av.
are	a	dram, fluid	fl. dr.	ounce, fluid	fl. oz.
avoirdupois	av.	fathom	fath.	ounce, troy	oz. t.
barrel	bbl.	foot	ft.	peck	pk.
board foot	bd. ft.	firkin	fir.	pennyweight	dwt.
bushel	bu.	furlong	fur.	pint	pt.
carat, metric	c	gallon	gal.	pound	lb.
centare	ca	grain	gr.	pound, apothecaries	lb. ap.
centigram	cg	gram	g	pound, avoirdupois	lb. av.
centiliter	cl	hectare	ha	pound, troy	lb. t.
centimeter	cm	hectogram	hg	quart	qt.
chain	ch.	hectoliter	hl	rod	rd.
cubic centimeter	cm^3	hectometer	hm	scruple, apothecaries	ap. s. or ℈
cubic decimeter	dm^3	hogshead	hhd.	square centimeter	cm^2
cubic dekameter	dkm^3	hundredweight	cwt.	square chain	sq. ch.
cubic foot	cu. ft.	inch	in.	square decimeter	dm^2
cubic hectometer	hm^3	kilogram	kg	square dekameter	dkm^2
cubic inch	cu. in.	kiloliter	kl	square foot	sq. ft.
cubic kilometer	km^3	kilometer	km	square hectometer	hm^2
cubic meter	m^3	link	li.	square inch	sq. in.
cubic mile	cu. mi.	liquid	liq.	square kilometer	km^2
cubic millimeter	mm^3	liter	l	square meter	m^2
cubic yard	cu. yd.	meter	m	square mile	sq. mi.
decigram	dg	metric ton	t	square millimeter	mm^2
deciliter	dl	micron	μ	square rod	sq. rd.
decimeter	dm	mile	mi.	square yard	sq. yd.
decistere	ds	milligram	mg	stere	s
dekagram	dkg	milliliter	ml	ton	tn.
dekaliter	dkl	millimeter	mm	ton, metric	t
dekameter	dkm	millimicron	mμ	troy	t.
dekastere	dks	minim	min. or ℳ	yard	yd.
dram	dr.	ounce	oz.		
dram, apothecaries	dr. ap. or ʒ	ounce, apothecaries	oz. ap. or ℥		

VI. TABLES OF INTERRELATION

1. UNITS OF

Units	Inches	Links	Feet	Yards	Rods
1 inch =	1	0. 126 263	0. 083 333 3	0. 027 777 8	0. 005 050 51
1 link =	7.92	1	0.66	0.22	0.04
1 foot =	12	1. 515 152	1	0. 333 333	0. 060 606 1
1 yard =	36	4. 545 45	3	1	0. 181 818
1 rod =	198	25	16.5	5.5	1
1 chain =	792	100	66	22	4
1 mile =	63 360	8000	5280	1760	320
1 centimeter=	0.3937	0. 049 709 60	0. 032 808 33	0. 010 936 111	0. 001 988 384
1 meter =	39.37	4. 970 960	3. 280 833	1. 093 611 1	0. 198 838 4

2. UNITS OF

Units	Square inches	Square links	Square feet	Square yards	Square rods	Square chains
1 square inch =	1	0. 015 942 3	0. 006 944 44	0. 007 716 05	0. 000 025 507 6	0. 000 001 594 23
1 square link =	62.7264	1	0.4356	0.0484	0.0016	0.0001
1 square foot =	144	2. 295 684	1	0. 111 111 1	0. 003 673 09	0. 000 229 568
1 square yard =	1296	20. 6612	9	1	0. 033 057 85	0. 002 066 12
1 square rod =	39 204	625	272.25	30.25	1	0.0625
1 square chain =	627 264	10 000	4356	484	16	1
1 acre =	6 272 640	100 000	43 560	4840	160	10
1 square mile=	4 014 489 600	64 000 000	27 878 400	3 097 600	102 400	6400
1 square centimeter=	0. 154 999 7	0. 002 471 04	0. 001 076 387	0. 000 119 598 5	0. 000 003 953 67	0. 000 000 247 104
1 square meter =	1549.9969	24. 7104	10. 763 87	1. 195 985	0. 039 536 7	0. 002 471 04
1 hectare =	15 499 969	247 104	107 638. 7	11 959. 85	395. 367	24.7104

3. UNITS OF

Units	Cubic inches	Cubic feet	Cubic yards
1 cubic inch =	1	0. 000 578 704	0. 000 021 433 47
1 cubic foot =	1728	1	0. 037 037 0
1 cubic yard =	46 656	27	1
1 cubic centimeter=	0. 061 023 38	0. 000 035 314 45	0. 000 001 307 94
1 cubic decimeter =	61. 023 38	0. 035 314 45	0. 001 307 943
1 cubic meter =	61 023. 38	35. 314 45	1. 307 942 8

4. UNITS OF CAPACITY

Units	Minims	Fluid drams	Fluid ounces	Gills	Liquid pints
1 minim =	1	0. 016 666 7	0. 002 083 33	0. 000 520 833	0. 000 130 208
1 fluid dram =	60	1	0.125	0.031 25	0. 007 812 5
1 fluid ounce=	480	8	1	0.25	0.0625
1 gill =	1920	32	4	1	0.25
1 liquid pint =	7680	128	16	4	1
1 liquid quart=	15 360	256	32	8	2
1 gallon =	61 440	1024	128	32	8
1 milliliter =	16. 2311	0. 270 518	0. 033 814 7	0. 008 453 68	0. 002 113 42
1 liter =	16 231. 1	270. 518	33. 8147	8. 453 68	2. 113 42
1 cubic inch =	265. 974	4. 432 90	0. 554 113	0. 138 528	0. 034 632 0

OF UNITS OF MEASUREMENT

LENGTH

Chains	Miles	Centimeters	Meters	Units
0. 001 262 63	0. 000 015 782 8	2. 540 005	0. 025 400 05	=1 inch
0.01	0.000 125	20. 116 84	0. 201 168 4	=1 link
0. 015 151 5	0. 000 189 393 9	30. 480 06	0. 304 800 6	=1 foot
0. 045 454 5	0. 000 568 181	91. 440 18	0. 914 401 8	=1 yard
0.25	0.003 125	502. 9210	5. 029 210	=1 rod
1	0.0125	2011. 684	20. 116 84	=1 chain
80	1	160 934. 72	1609. 3472	=1 mile
0. 000 497 096 0	0. 000 006 213 699	1	0.01	=1 centimeter
0. 049 709 60	0. 000 621 369 9	100	1	=1 meter

AREA

Acres	Square miles	Square centimeters	Square meters	Hectares	Units
0. 000 000 159 423	0. 000 000 000 249 1	6. 451 626	0. 000 645 162 6	0. 000 000 064 516	=1 square inch
0.000 01	0.000 000 015 625	404. 6873	0. 040 468 73	0. 000 004 046 87	=1 square link
0. 000 022 956 8	0. 000 000 035 870 1	929. 0341	0. 092 903 41	0. 000 009 290 34	=1 square foot
0. 000 206 612	0. 000 000 322 831	8361. 307	0. 836 130 7	0. 000 083 613 1	=1 square yard
0.006 25	0.000 009 765 625	252 929. 5	25. 292 95	0. 002 529 295	=1 square rod
0.1	0.000 156 25	4 046 873	404. 6873	0. 040 468 7	=1 square chain
1	0.001 562 5	4 046 872 6	4046. 873	0. 404 687	=1 acre
640	1	25 899 984 703	2 589 998	258. 9998	=1 square mile
0. 000 000 024 710 4	0. 000 000 000 038 610 06	1	0.0001	0. 000 000 01	=1 square centimeter
0. 000 247 104	0. 000 000 386 100 6	10 000	1	0.0001	=1 square meter
2. 471 04	0. 003 861 006	100 000 000	10 000	1	=1 hectare

VOLUME

Cubic centimeters	Cubic decimeters	Cubic meters	Units
16. 387 162	0. 016 387 16	0. 000 016 387 16	=1 cubic inch
28 317. 016	28. 317 016	0. 028 317 016	=1 cubic foot
764 559. 4	764. 5594	0. 764 559 4	=1 cubic yard
1	0.001	0. 000 001	=1 cubic centimeter
1 000	1	0.001	=1 cubic decimeter
1 000 000	1000	1	=1 cubic meter

LIQUID MEASURE

Liquid quarts	Gallons	Milliliters	Liters	Cubic inches	Units
0. 000 065 104	0. 000 016 276	0. 061 610 2	0. 000 061 610 2	0. 003 759 77	=1 minim
0.003 906 25	0. 000 976 562	3. 696 61	0. 003 696 61	0. 225 586	=1 fluid dram
0.031 25	0.007 812 5	29. 5729	0. 029 572 9	1. 804 69	=1 fluid ounce
0.125	0.031 25	118. 292	0. 118 292	7. 218 75	=1 gill
0.5	0.125	473. 167	0. 473 167	28. 875	=1 liquid pint
1	0.25	946. 333	0. 946 333	57. 75	=1 liquid quart
4	1	3785. 332	3. 785 332	231	=1 gallon
0. 001 056 71	0. 000 264 178	1	0.001	0. 061 025 0	=1 milliliter
1. 056 71	0. 264 178	1000	1	61. 0250	=1 liter
0. 017 316 0	0. 004 329 00	16. 3867	0. 016 386 7	1	=1 cubic inch

5. UNITS OF CAPACITY

Units	Dry pints	Dry quarts	Pecks	Bushels
1 dry pint =	1	0.5	0.0625	0.015 625
1 dry quart =	2	1	0.125	0.031 25
1 peck =	16	8	1	0.25
1 bushel =	64	32	4	1
1 liter =	1.816 20	0.908 102	0.113 513	0.028 378
1 dekaliter =	18.1620	9.081 02	1.135 13	0.283 78
1 cubic inch =	0.029 761 6	0.014 880 8	0.001 860 10	0.000 465 025

6. UNITS OF MASS LESS

Units	Grains	Apothecaries' scruples	Pennyweights	Avoirdupois drams	Apothecaries' drams	Avoirdupois ounces
1 grain =	1	0.05	0.041 666 67	0.036 571 43	0.016 666 7	0.002 285 71
1 apoth. scruple =	20	1	0.833 333 3	0.731 428 6	0.333 333	0.045 714 3
1 pennyweight =	24	1.2	1	0.877 714 3	0.4	0.054 857 1
1 avoir. dram =	27.343 75	1.367 187 5	1.139 323	1	0.455 729 2	0.0625
1 apoth. dram =	60	3	2.5	2.194 286	1	0.137 142 9
1 avoir. ounce =	437.5	21.875	18.229 17	16	7.291 66	1
1 apoth. or troy ounce=	480	24	20	17.554 28	8	1.097 142 9
1 apoth. or troy pound=	5760	288	240	210.6514	96	13.165 714
1 avoir. pound =	7000	350	291.6667	256	116.6667	16
1 milligram =	0.015 432 356	0.000 771 618	0.000 643 014 8	0.000 564 383 3	0.000 257 205 9	0.000 035 273 96
1 gram =	15.432 356	0.771 618	0.643 014 85	0.564 383 3	0.257 205 9	0.035 273 96
1 kilogram =	15 432.356	771.6178	643.014 85	564.383 32	257.205 94	35.273 96

7. UNITS OF MASS

Units	Avoirdupois ounces	Avoirdupois pounds	Short hundred-weights	Short tons
1 avoirdupois ounce =	1	0.0625	0.000 625	0.000 031 25
1 avoirdupois pound =	16	1	0.01	0.0005
1 short hundredweight =	1600	100	1	0.05
1 short ton =	32 000	2000	20	1
1 long ton =	35 840	2240	22.4	1.12
1 kilogram =	35.273 957	2.204 622 34	0.022 046 223	0.001 102 311 2
1 metric ton =	35 273.957	2204.622 34	22.046 223	1.102 311 2

DRY MEASURE

Liters	Dekaliters	Cubic inches	Units
0. 550 599	0. 055 060	33.600 312 5	= 1 dry pint
1. 101 198	0. 110 120	67.200 625	= 1 dry quart
8. 809 58	0. 880 958	537.605	= 1 peck
35. 2383	3. 523 83	2150.42	= 1 bushel
1	0.1	61.0250	= 1 liter
10	1	610.250	= 1 dekaliter
0. 016 386 7	0. 001 638 67	1	= 1 cubic inch

THAN POUNDS AND KILOGRAMS

Apothecaries' or troy ounces	Apothecaries' or troy pounds	Avoirdupois pounds	Milligrams	Grams	Kilograms	Units
0. 002 083 33	0. 000 173 611 1	0. 000 142 857 1	64. 798 918	0. 064 798 918	0. 000 064 798 9	= 1 grain
0. 041 666 7	0. 003 472 222	0. 002 857 143	1295. 9784	1. 295 978 4	0. 001 295 978	= 1 apoth. scruple
0.05	0. 004 166 667	0. 003 428 571	1555. 1740	1. 555 174 0	0. 001 555 174	= 1 pennyweight
0. 056 966 146	0. 004 747 178 8	0.003 906 25	1771. 8454	1. 771 845 4	0. 001 771 845	= 1 avoir. dram
0.125	0. 010 416 667	0. 008 571 429	3887. 9351	3. 887 935 1	0. 003 887 935	= 1 apoth. dram
0. 911 458 3	0. 075 954 861	0.0625	28 349. 527	28. 349 527	0. 028 349 53	= 1 avoir. ounce
1	0. 083 333 33	0. 068 571 43	31 103. 481	31. 103 481	0. 031 103 48	= 1 apoth. or troy ounce
12	1	0. 822 857 1	373 241. 77	373. 241 77	0. 373 241 77	= 1 apoth. or troy pound
14. 583 333	1. 215 277 8	1	453 592. 4277	453. 592 4277	0. 453 592 427 7	= 1 avoir. pound
0. 000 032 150 74	0. 000 002 679 23	0. 000 002 204 62	1	0.001	0.000 001	= 1 milligram
0. 032 150 74	0. 002 679 23	0. 002 204 62	1000	1	0.001	= 1 gram
32. 150 742	2. 679 228 5	2. 204 622 341	1 000 000	1000	1	= 1 kilogram

GREATER THAN AVOIRDUPOIS OUNCES

Long tons	Kilograms	Metric tons	Units
0. 000 027 901 79	0. 028 349 53	0. 000 028 349 53	= 1 avoirdupois ounce
0. 000 446 428 6	0. 453 592 427 7	0. 000 453 592 43	= 1 avoirdupois pound
0. 044 642 86	45. 359 243	0. 045 359 243	= 1 short hundredweight
0. 892 857 1	907. 184 86	0. 907 184 86	= 1 short ton
1	1016. 047 04	1. 016 047 04	= 1 long ton
0. 000 984 206 4	1	0.001	= 1 kilogram
0. 984 206 40	1000	1	= 1 metric ton

VII. COMPARISON OF METRIC AND CUSTOMARY UNITS FROM 1 TO 9

1. LENGTH

Inches (in.) — Millimeters (mm)	Feet (ft.) — Meters (m)	Yards (yd.) — Meters (m)	Rods (rd.) — Meters (m)	U.S. miles (mi.) — Kilometers (km)
0.039 37=1	1=0.304 801	1=0.914 402	0.198 838=1	0.621 370=1
0.078 74=2	2=0.609 601	2=1.828 804	0.397 677=2	1.242 740=2
0.118 11=3	3=0.914 402	3=2.743 205	0.596 515=3	1.864 110=3
0.157 48=4	4=1.219 202	4=3.657 607	0.795 354=4	2.485 480=4
0.196 85=5	5=1.524 003	5=4.572 009	0.994 192=5	3.106 850=5
0.236 22=6	6=1.828 804	6=5.486 411	1.193 030=6	3.728 220=6
0.275 59=7	7=2.133 604	7=6.400 813	1.391 869=7	4.349 590=7
0.314 96=8	8=2.438 405	8=7.315 215	1.590 707=8	4.970 960=8
0.354 33=9	9=2.743 205	9=8.229 616	1.789 545=9	5.592 330=9
1= 25.4001	3.280 83=1	1.093 611=1	1= 5.029 21	1= 1.609 347
2= 50.8001	6.561 67=2	2.187 222=2	2=10.058 42	2= 3.218 694
3= 76.2002	9.842 50=3	3.280 833=3	3=15.087 63	3= 4.828 042
4=101.6002	13.123 33=4	4.374 444=4	4=20.116 84	4= 6.437 389
5=127.0003	16.404 17=5	5.468 056=5	5=25.146 05	5= 8.046 736
6=152.4003	19.685 00=6	6.561 667=6	6=30.175 26	6= 9.656 083
7=177.8004	22.965 83=7	7.655 278=7	7=35.204 47	7=11.265 431
8=203.2004	26.246 67=8	8.748 889=8	8=40.233 68	8=12.874 778
9=228.6005	29.527 50=9	9.842 500=9	9=45.262 89	9=14.484 125

2. AREA

Square inches (sq. in.) — Square centimeters (cm^2)	Square feet (sq. ft.) — Square meters (m^2)	Square yards (sq. yd.) — Square meters (m^2)	Acres (A.) — Hectares (ha)	Square miles (sq. mi.) — Square kilometers (km^2)
0.155 00=1	1=0.092 90	1=0.8361	1=0.4047	0.3861=1
0.310 00=2	2=0.185 81	2=1.6723	2=0.8094	0.7722=2
0.465 00=3	3=0.278 71	3=2.5084	3=1.2141	1.1583=3
0.620 00=4	4=0.371 61	4=3.3445	4=1.6187	1.5444=4
0.775 00=5	5=0.464 52	5=4.1807	5=2.0234	1.9305=5
0.930 00=6	6=0.557 42	6=5.0168	6=2.4281	2.3166=6
1.085 00=7	7=0.650 32	7=5.8529	7=2.8328	2.7027=7
1.240 00=8	8=0.743 23	8=6.6890	8=3.2375	3.0888=8
1.395 00=9	9=0.836 13	9=7.5252	9=3.6422	3.4749=9
1= 6.452	10.764=1	1.1960=1	2.471=1	1= 2.5900
2=12.903	21.528=2	2.3920=2	4.942=2	2= 5.1800
3=19.355	32.292=3	3.5880=3	7.413=3	3= 7.7700
4=25.807	43.055=4	4.7839=4	9.884=4	4=10.3600
5=32.258	53.819=5	5.9799=5	12.355=5	5=12.9500
6=38.710	64.583=6	7.1759=6	14.826=6	6=15.5400
7=45.161	75.347=7	8.3719=7	17.297=7	7=18.1300
8=51.613	86.111=8	9.5679=8	19.768=8	8=20.7200
9=58.065	96.875=9	10.7639=9	22.239=9	9=23.3100

3. VOLUME

Cubic inches (cu. in.) — Cubic centimeters (cm^3)	Cubic feet (cu. ft.) — Cubic meters (m^3)	Cubic yards (cu. yd.) — Cubic meters (m^3)	Cubic inches (cu. in.) — Liters (l)	Cubic feet (cu. ft.) — Liters (l)
0.061 02=1	1=0.028 317	1=0.7646	1=0.016 386 7	1= 28.316
0.122 05=2	2=0.056 634	2=1.5291	2=0.032 773 4	2= 56.633
0.183 07=3	3=0.084 951	3=2.2937	3=0.049 160 2	3= 84.949
0.244 09=4	4=0.113 268	4=3.0582	4=0.065 546 9	4=113.265
0.305 12=5	5=0.141 585	5=3.8228	5=0.081 933 6	5=141.581
0.366 14=6	6=0.169 902	6=4.5874	6=0.098 320 3	6=169.898
0.427 16=7	7=0.198 219	7=5.3519	7=0.114 707 0	7=198.214
0.488 19=8	8=0.226 536	8=6.1165	8=0.131 093 8	8=226.530
0.549 21=9	9=0.254 853	9=6.8810	9=0.147 480 5	9=254.846
1= 16.3872	35.314=1	1.3079=1	61.025=1	0.035 315=1
2= 32.7743	70.629=2	2.6159=2	122.050=2	0.070 631=2
3= 49.1615	105.943=3	3.9238=3	183.075=3	0.105 946=3
4= 65.5486	141.258=4	5.2318=4	244.100=4	0.141 262=4
5= 81.9358	176.572=5	6.5397=5	305.125=5	0.176 577=5
6= 98.3230	211.887=6	7.8477=6	366.150=6	0.211 892=6
7=114.7101	247.201=7	9.1556=7	427.175=7	0.247 208=7
8=131.0973	282.516=8	10.4635=8	488.200=8	0.282 523=8
9=147.4845	317.830=9	11.7715=9	549.225=9	0.317 839=9

4. CAPACITY—LIQUID MEASURE

U.S. fluid drams (fl. dr.)	Milliliters (ml)	U.S. fluid ounces (fl. oz.)	Milliliters (ml)	U.S. liquid pints (pt.)	Liters (l)	U.S. liquid quarts (qt.)	Liters (l)	U.S. gallons (gal.)	Liters (l)
0.270 52=1		0.033 815=1		1=0.473 17		1=0.946 33		0.264 18=1	
0.541 04=2		0.067 629=2		2=0.946 33		2=1.892 67		0.528 36=2	
0.811 55=3		0.101 444=3		3=1.419 50		3=2.839 00		0.792 53=3	
1.082 07=4		0.135 259=4		4=1.892 67		4=3.785 33		1.056 71=4	
1.352 59=5		0.169 074=5		5=2.365 83		5=4.731 67		1.320 89=5	
1.623 11=6		0.202 888=6		6=2.839 00		6=5.678 00		1.585 07=6	
1.893 63=7		0.236 703=7		7=3.312 17		7=6.624 33		1.849 24=7	
2.164 14=8		0.270 518=8		8=3.785 33		8=7.570 66		2.113 42=8	
2.434 66=9		0.304 333=9		9=4.258 50		9=8.517 00		2.377 60=9	
1= 3.6966		1= 29.573		2.1134=1		1.056 71=1		1= 3.785 33	
2= 7.3932		2= 59.146		4.2268=2		2.113 42=2		2= 7.570 66	
3=11.0898		3= 88.719		6.3403=3		3.170 13=3		3=11.356 00	
4=14.7865		4=118.292		8.4537=4		4.226 84=4		4=15.141 33	
5=18.4831		5=147.865		10.5671=5		5.283 55=5		5=18.926 66	
6=22.1797		6=177.437		12.6805=6		6.340 26=6		6=22.711 99	
7=25.8763		7=207.010		14.7939=7		7.396 97=7		7=26.497 33	
8=29.5729		8=236.583		16.9074=8		8.453 68=8		8=30.282 66	
9=33.2695		9=266.156		19.0208=9		9.510 39=9		9=34.067 99	

5. CAPACITY—DRY MEASURE

U.S. dry quarts (qt.)	Liters (l)	U.S. pecks (pk.)	Liters (l)	U.S. pecks (pk.)	Dekaliters (dkl)	U.S. bushels (bu.)	Hecto-liters (hl)	U.S. bushels per acre	Hecto-liters per hectare
0.9081=1		0.113 51=1		1=0.8810		1=0.352 38		1=0.8708	
1.8162=2		0.227 03=2		2=1.7619		2=0.704 77		2=1.7415	
2.7243=3		0.340 54=3		3=2.6429		3=1.057 15		3=2.6123	
3.6324=4		0.454 05=4		4=3.5238		4=1.409 53		4=3.4830	
4.5405=5		0.567 56=5		5=4.4048		5=1.761 92		5=4.3538	
5.4486=6		0.681 08=6		6=5.2857		6=2.114 30		6=5.2245	
6.3567=7		0.794 59=7		7=6.1667		7=2.466 68		7=6.0953	
7.2648=8		0.908 10=8		8=7.0477		8=2.819 07		8=6.9660	
8.1729=9		1.021 61=9		9=7.9286		9=3.171 45		9=7.8368	
1=1.1012		1= 8.810		1.1351=1		2.8378=1		1.1484=1	
2=2.2024		2=17.619		2.2703=2		5.6756=2		2.2969=2	
3=3.3036		3=26.429		3.4054=3		8.5135=3		3.4453=3	
4=4.4048		4=35.238		4.5405=4		11.3513=4		4.5937=4	
5=5.5060		5=44.048		5.6756=5		14.1891=5		5.7421=5	
6=6.6072		6=52.857		6.8108=6		17.0269=6		6.8906=6	
7=7.7084		7=61.667		7.9459=7		19.8647=7		8.0390=7	
8=8.8096		8=70.477		9.0810=8		22.7026=8		9.1874=8	
9=9.9108		9=79.286		10.2161=9		25.5404=9		10.3359=9	

6. MASS

Grains (gr.)	Grams (g)	Apothecaries' drams (ʒ or dr. ap.)	Grams (g)	Troy ounces (oz. t.)	Grams (g)	Avoirdupois ounces (oz. av.)	Grams (g)	Avoirdupois pounds (lb. av.)	Kilograms (kg)
1=0.064 799		0.257 21=1		0.032 151=1		0.035 274=1		1=0.453 59	
2=0.129 598		0.514 41=2		0.064 301=2		0.070 548=2		2=0.907 18	
3=0.194 397		0.771 62=3		0.096 452=3		0.105 822=3		3=1.360 78	
4=0.259 196		1.028 82=4		0.128 603=4		0.141 096=4		4=1.814 37	
5=0.323 995		1.286 03=5		0.160 754=5		0.176 370=5		5=2.267 96	
6=0.388 794		1.543 24=6		0.192 904=6		0.211 644=6		6=2.721 55	
7=0.453 592		1.800 44=7		0.225 055=7		0.246 918=7		7=3.175 15	
8=0.518 391		2.057 65=8		0.257 206=8		0.282 192=8		8=3.628 74	
9=0.583 190		2.314 85=9		0.289 357=9		0.317 466=9		9=4.082 33	
15.4324=1		1= 3.8879		1= 31.103		1= 28.350		2.204 62=1	
30.8647=2		2= 7.7759		2= 62.207		2= 56.699		4.409 24=2	
46.2971=3		3=11.6638		3= 93.310		3= 85.049		6.613 87=3	
61.7294=4		4=15.5517		4=124.414		4=113.398		8.818 49=4	
77.1618=5		5=19.4397		5=155.517		5=141.748		11.023 11=5	
92.5941=6		6=23.3276		6=186.621		6=170.097		13.227 73=6	
108.0265=7		7=27.2155		7=217.724		7=198.447		15.432 36=7	
123.4589=8		8=31.1035		8=248.828		8=226.796		17.636 98=8	
138.8912=9		9=34.9914		9=279.931		9=255.146		19.841 60=9	

VIII. SPECIAL TABLES

1. LENGTH—INCHES AND MILLIMETERS—EQUIVALENTS OF DECIMAL AND BINARY FRACTIONS OF AN INCH IN MILLIMETERS

From 1/64 to 1 Inch

½'s	¼'s	8ths	16ths	32ds	64ths	Milli-meters	Decimals of an inch	Inch	½'s	¼'s	8ths	16ths	32ds	64ths	Milli-meters	Decimals of an inch
					1	= 0.397	0.015625							33	=13.097	0.515625
				1	2	= .794	.03125						17	34	=13.494	.53125
					3	= 1.191	.046875							35	=13.891	.546875
			1	2	4	= 1.588	.0625					9	18	36	=14.288	.5625
					5	= 1.984	.078125							37	=14.684	.578125
				3	6	= 2.381	.09375						19	38	=15.081	.59375
					7	= 2.773	.109375							39	=15.478	.609375
		1	2	4	8	= 3.175	.1250				5	10	20	40	=15.875	.625
					9	= 3.572	.140625							41	=16.272	.640625
				5	10	= 3.969	.15625						21	42	=16.669	.65625
					11	= 4.366	.171875							43	=17.066	.671875
			3	6	12	= 4.763	.1875					11	22	44	=17.463	.6875
					13	= 5.159	.203125							45	=17.859	.703125
				7	14	= 5.556	.21875						23	46	=18.255	.71875
					15	= 5.953	.234375							47	=18.653	.734375
	1	2	4	8	16	= 6.350	.2500			3	6	12	24	48	=19.050	.75
					17	= 6.747	.265625							49	=19.447	.765625
				9	18	= 7.144	.28125						25	50	=19.844	.78125
					19	= 7.541	.296875							51	=20.241	.796875
			5	10	20	= 7.938	.3125					13	26	52	=20.638	.8125
					21	= 8.334	.328125							53	=21.034	.828125
				11	22	= 8.731	.34375						27	54	=21.431	.84375
					23	= 9.128	.359375							55	=21.828	.859375
		3	6	12	24	= 9.525	.3750				7	14	28	56	=22.225	.875
					25	= 9.922	.390625							57	=22.622	.890625
				13	26	=10.319	.40625						29	58	=23.019	.90625
					27	=10.716	.421875							59	=23.416	.921875
			7	14	28	=11.113	.4375					15	30	60	=23.813	.9375
					29	=11.509	.453125							61	=24.209	.953125
				15	30	=11.906	.46875						31	62	=24.606	.96875
					31	=12.303	.484375							63	=25.003	.984375
1	2	4	8	16	32	=12.700	.5	1	2	4	8	16	32	64	=25.400	1.000

2. LENGTH—HUNDREDTHS OF AN INCH TO MILLIMETERS

From 1 to 99 Hundredths

Hundredths of an inch	0	1	2	3	4	5	6	7	8	9
	0	0.254	0.508	0.762	1.016	1.270	1.524	1.778	2.032	2.286
10	2.540	2.794	3.048	3.302	3.556	3.810	4.064	4.318	4.572	4.826
20	5.080	5.334	5.588	5.842	6.096	6.350	6.604	6.858	7.112	7.366
30	7.620	7.874	8.128	8.382	8.636	8.890	9.144	9.398	9.652	9.906
40	10.160	10.414	10.668	10.922	11.176	11.430	11.684	11.938	12.192	12.446
50	12.700	12.954	13.208	13.462	13.716	13.970	14.224	14.478	14.732	14.986
60	15.240	15.494	15.748	16.002	16.256	16.510	16.764	17.018	17.272	17.526
70	17.780	18.034	18.288	18.542	18.796	19.050	19.304	19.558	19.812	20.066
80	20.320	20.574	20.828	21.082	21.336	21.590	21.844	22.098	22.352	22.606
90	22.860	23.114	23.368	23.622	23.876	24.130	24.384	24.638	24.892	25.146

3. LENGTH—MILLIMETERS TO DECIMALS OF AN INCH

From 1 to 99 Units

Milli-meters	0	1	2	3	4	5	6	7	8	9
	0	0.03937	0.07874	0.11811	0.15748	0.19685	0.23622	0.27559	0.31496	0.35433
10	0.39370	.43307	.47244	.51181	.55118	.59055	.62992	.66929	.70866	.74803
20	.78740	.82677	.86614	.90551	.94488	.98425	1.02362	1.06299	1.10236	1.14173
30	1.18110	1.22047	1.25984	1.29921	1.33858	1.37795	1.41732	1.45669	1.49606	1.53543
40	1.57480	1.61417	1.65354	1.69291	1.73228	1.77165	1.81102	1.85039	1.88976	1.92913
50	1.96850	2.00787	2.04724	2.08661	2.12598	2.16535	2.20472	2.24409	2.28346	2.32283
60	2.36220	2.40157	2.44094	2.48031	2.51968	2.55905	2.59842	2.63779	2.67716	2.71653
70	2.75590	2.79527	2.83464	2.87401	2.91338	2.95275	2.99212	3.03149	3.07086	3.11023
80	3.14960	3.18897	3.22834	3.26771	3.30708	3.34645	3.38582	3.42519	3.46456	3.50393
90	3.54330	3.58267	3.62204	3.66141	3.70078	3.74015	3.77952	3.81889	3.85826	3.89763

4. COMPARISON OF THE VARIOUS TONS AND POUNDS IN USE IN THE UNITED STATES (FROM 1 TO 9 UNITS)

Troy pounds	Avoirdupois pounds	Kilograms	Short tons	Long tons	Metric tons
1	0.822·857	0.373 24	0.000 411 43	0.000 367 35	0.000 373 24
2	1.645 71	0.746 48	0.000 822 86	0.000 734 69	0.000 746 48
3	2.468 57	1.119 73	0.001 234 29	0.001 102 04	0.001 119 73
4	3.291 43	1.492 97	0.001 645 71	0.001 469 39	0.001 492 97
5	4.114 29	1.866 21	0.002 057 14	0.001 836 73	0.001 866 21
6	4.937 14	2.239 45	0.002 468 57	0.002 204 08	0.002 239 45
7	5.760 00	2.612 69	0.002 880 00	0.002 571 43	0.002 612 69
8	6.582 86	2.985 93	0.003 291 43	0.002 938 78	0.002 985 93
9	7 405 71	3.359 18	0.003 702 86	0.003 306 12	0.003 359 18
1.215 28	1	0.453 59	0.0005	0.000 446 43	0.000 453 59
2.430 56	2	0.907 18	0.0010	0.000 892 86	0.000 907 18
3.645 83	3	1.360 78	0.0015	0.001 339 29	0.001 360 78
4.861 11	4	1.814 37	0.0020	0.001 785 71	0.001 814 37
6.076 39	5	2.267 96	0.0025	0.002 232 14	0.002 267 96
7.291 67	6	2.721 55	0.0030	0.002 678 57	0.002 721 55
8.506 94	7	3.⁀175 15	0.0035	0.003 125 00	0.003 175 15
9.722 22	8	3.628 74	0.0040	0.003 571 43	0.003 628 74
10.937 50	9	4.082 33	0.0045	0.004 017 86	0.004 082 33
2.679 23	2.204 62	1	0.001 102 31	0.000 984 21	0.001
5.358 46	4.409 24	2	0.002 204 62	0.001 968 41	0.002
8.037 69	6.613 87	3	0.003 306 93	0.002 952 62	0.003
10.716 91	8.818 49	4	0.004 409 24	0.003 936 83	0.004
13.937 50	11.023 11	5	0.005 511 56	0.004 921 03	0.005
16.075 37	13.227 73	6	0.006 613 87	0.005 905 24	0.006
18.754 60	15.432 36	7	0.007 716 18	0.006 889 44	0.007
21.433 83	17.636 98	8	0.008 818 49	0.007 873 65	0.008
24.113 06	19.841 60	9	0.009 920 80	0.008 857 86	0.009
2430.56	2000	907.18	1	0.892 87	0.907 18
4861.11	4000	1814.37	2	1.785 71	1.814 37
7291.67	6000	2721.55	3	2.678 57	2.721 55
9722.22	8000	3628.74	4	3.571 43	3.628 74
12 152.78	10 000	4535.92	5	4.464 29	4.535 92
14 583.33	12 000	5443.11	6	5.357 14	5.443 11
17 013.89	14 000	6350.29	7	6.250 00	6.350 29
19 444.44	16 000	7257.48	8	7.142 86	7.257 48
21 875.00	18 000	8164.66	9	8.035 71	8.164 66
2722.22	2240	1016.05	1.12	1	1.016 05
5444.44	4480	2032.09	2.24	2	2.032 09
8166.67	6720	3048.14	3.36	3	3.048 14
10 888.89	8960	4064.19	4.48	4	4.064 19
13 611.11	11 200	5080.24	5.60	5	5.080 24
16 333.33	13 440	6096.28	6.72	6	6.096 28
19 055.56	15 680	7112.32	7.84	7	7.112 32
21 777.78	17 920	8128.38	8.96	8	8.128 38
24 500.00	20 160	9144.42	10.08	9	9.144 42
2679.23	2204.62	1000	1.102 31	0.984 21	1
5358.46	4409.24	2000	2.204 62	1.968 41	2
8037.69	6613.87	3000	3.306 93	2.952 62	3
10 716.91	8818.49	4000	4.409 24	3.936 83	4
13 937.50	11 023.11	5000	5.511 56	4.921 03	5
16 075.37	13 227.73	6000	6.613 87	5.905 24	6
18 754.60	15 432.36	7000	7.716 18	6.889 44	7
21 433.83	17 636.98	8000	8.818 49	7.873 65	8
24 113.06	19 841.60	9000	9.920 80	8.857 86	9

5. COMPARISON OF PRICES

French and German prices for metric units, British prices for imperial units, and United States prices for United States standard weights and measures

[Based upon the circular of the Secretary of the Treasury dated July 1, 1914, fixing the legal equivalent of the (German) mark at 23.8 cents, of the (French) franc at 19.3 cents, and the British pound sterling at $4.8665.]

Francs per kilogram	Dollars per avoirdupois pound	Francs per meter	Dollars per yard	Francs per liter	Dollars per U.S. liquid gallon	Francs per hectoliter	Dollars per bushel	Shillings per British imperial gallon	Dollars per U.S. liquid gallon
	1=.088		1=0.176		1=0.731		1=0.068		1=0.203
	2=.175		2=.353		2=1.461		2=.136		2=.405
	3=.263		3=.529		3=2.192		3=.204		3=.608
	4=.350		4=.706		4=2.922		4=.272		4=.810
	5=.438		5=.882		5=3.653		5=.340		5=1.013
	6=.525		6=1.059		6=4.383		6=.408		6=1.216
	7=.613		7=1.235		7=5.114		7=.476		7=1.418
	8=.700		8=1.412		8=5.845		8=.544		8=1.621
	9=.788		9=1.588		9=6.575		9=.612		9=1.824
11.423=1		5.666=1		1.369=1		14.704=1		4.936=1	
22.846=2		11.333=2		2.738=2		29.407=2		9.871=2	
34.269=3		16.999=3		4.106=3		44.111=3		14.807=3	
45.692=4		22.666=4		5.475=4		58.815=4		19.742=4	
57.115=5		28.332=5		6.844=5		73.519=5		24.678=5	
68.537=6		33.998=6		8.213=6		88.222=6		29.613=6	
79.960=7		39.665=7		9.582=7		102.926=7		34.549=7	
91.383=8		45.331=8		10.950=8		117.630=8		39.484=8	
102.806=9		50.997=9		12.319=9		132.334=9		44.420=9	

Marks per kilogram	Dollars per avoirdupois pound	Marks per meter	Dollars per yard	Marks per liter	Dollars per U.S. liquid gallon	Marks per hectoliter	Dollars per bushel	Shillings per British bushel	Dollars per U.S. bushel
	1=0.108		1=0.218		1=0.901		1=0.084		1=0.236
	2=.216		2=.435		2=1.802		2=.168		2=.472
	3=.324		3=.653		3=2.703		3=.252		3=.707
	4=.432		4=.871		4=3.604		4=.335		4=.943
	5=.540		5=1.088		5=4.505		5=.419		5=1.179
	6=.648		6=1.306		6=5.405		6=.503		6=1.415
	7=.756		7=1.523		7=6.306		7=.587		7=1.650
	8=.864		8=1.741		8=7.207		8=.671		8=1.886
	9=.972		9=1.959		9=8.108		9=.755		9=2.122
9.263=1		4.595=1		1.110=1		11.924=1		4.241=1	
18.526=2		9.190=2		2.220=2		23.847=2		8.483=2	
27.789=3		13.785=3		3.330=3		35.771=3		12.724=3	
37.052=4		18.380=4		4.440=4		47.694=4		16.966=4	
46.316=5		22.975=5		5.550=5		59.618=5		21.207=5	
55.579=6		27.570=6		6.660=6		71.542=6		25.449=6	
64.842=7		32.165=7		7.770=7		83.465=7		29.690=7	
74.105=8		36.760=8		8.880=8		95.389=8		33.932=8	
83.368=9		41.355=9		9.990=9		107.312=9		38.173=9	

IX. TABLES OF EQUIVALENTS FROM 1 TO 999 UNITS

LENGTH—FEET TO METERS

[Reduction factor: 1 foot = 0.3048006096 meter]

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
0		100	30.48006	200	60.96012	300	91.44018	400	121.92024	500	152.40030	600	182.88037	700	213.36043	800	243.84049	900	274.32055
1	0.30480	1	30.78486	1	61.26492	1	91.74498	1	122.22504	1	152.70511	1	183.18517	1	213.66523	1	244.14529	1	274.62535
2	.60960	2	31.08966	2	61.56972	2	92.04978	2	122.52985	2	153.00991	2	183.48997	2	213.97003	2	244.45009	2	274.93015
3	.91440	3	31.39446	3	61.87452	3	92.35458	3	122.83465	3	153.31471	3	183.79477	3	214.27483	3	244.75489	3	275.23495
4	1.21920	4	31.69926	4	62.17932	4	92.65939	4	123.13945	4	153.61951	4	184.09957	4	214.57963	4	245.05969	4	275.53975
5	1.52400	5	32.00406	5	62.48412	5	92.96419	5	123.44425	5	153.92431	5	184.40437	5	214.88443	5	245.36449	5	275.84455
6	1.82880	6	32.30886	6	62.78893	6	93.26899	6	123.74905	6	154.22911	6	184.70917	6	215.18923	6	245.66929	6	276.14935
7	2.13360	7	32.61367	7	63.09373	7	93.57379	7	124.05385	7	154.53391	7	185.01397	7	215.49403	7	245.97409	7	276.45415
8	2.43840	8	32.91847	8	63.39853	8	93.87859	8	124.35865	8	154.83871	8	185.31877	8	215.79883	8	246.27889	8	276.75895
9	2.74321	9	33.22327	9	63.70333	9	94.18339	9	124.66345	9	155.14351	9	185.62357	9	216.10363	9	246.58369	9	277.06375
10	3.04801	110	33.52807	210	64.00813	310	94.48819	410	124.96825	510	155.44831	610	185.92837	710	216.40843	810	246.88849	910	277.36855
11	3.35281	11	33.83287	11	64.31293	11	94.79299	11	125.27305	11	155.75311	11	186.23317	11	216.71323	11	247.19329	11	277.67336
12	3.65761	12	34.13767	12	64.61773	12	95.09779	12	125.57785	12	156.05791	12	186.53797	12	217.01803	12	247.49809	12	277.97816
13	3.96241	13	34.44247	13	64.92253	13	95.40259	13	125.88265	13	156.36271	13	186.84277	13	217.32283	13	247.80290	13	278.28296
14	4.26721	14	34.74727	14	65.22733	14	95.70739	14	126.18745	14	156.66751	14	187.14757	14	217.62764	14	248.10770	14	278.58776
15	4.57201	15	35.05207	15	65.53213	15	96.01219	15	126.49225	15	156.97231	15	187.45237	15	217.93244	15	248.41250	15	278.89256
16	4.87681	16	35.35687	16	65.83693	16	96.31699	16	126.79705	16	157.27711	16	187.75718	16	218.23724	16	248.71730	16	279.19736
17	5.18161	17	35.66167	17	66.14173	17	96.62179	17	127.10185	17	157.58192	17	188.06198	17	218.54204	17	249.02210	17	279.50216
18	5.48641	18	35.96647	18	66.44653	18	96.92659	18	127.40665	18	157.88672	18	188.36678	18	218.84684	18	249.32690	18	279.80696
19	5.79121	19	36.27127	19	66.75133	19	97.23139	19	127.71146	19	158.19152	19	188.67158	19	219.15164	19	249.63170	19	280.11176
20	6.09601	120	36.57607	220	67.05613	320	97.53620	420	128.01626	520	158.49632	620	188.97638	720	219.45644	820	249.93650	920	280.41656
21	6.40081	21	36.88087	21	67.36093	21	97.84100	21	128.32106	21	158.80112	21	189.28118	21	219.76124	21	250.24130	21	280.72136
22	6.70561	22	37.18567	22	67.66574	22	98.14580	22	128.62586	22	159.10592	22	189.58598	22	220.06604	22	250.54610	22	281.02616
23	7.01041	23	37.49047	23	67.97054	23	98.45060	23	128.93066	23	159.41072	23	189.89078	23	220.37084	23	250.85090	23	281.33096
24	7.31521	24	37.79528	24	68.27534	24	98.75540	24	129.23546	24	159.71552	24	190.19558	24	220.67564	24	251.15570	24	281.63576
25	7.62002	25	38.10008	25	68.58014	25	99.06020	25	129.54026	25	160.02032	25	190.50038	25	220.98044	25	251.46050	25	281.94056
26	7.92482	26	38.40488	26	68.88494	26	99.36500	26	129.84506	26	160.32512	26	190.80518	26	221.28524	26	251.76530	26	282.24536
27	8.22962	27	38.70968	27	69.18974	27	99.66980	27	130.14986	27	160.62992	27	191.10998	27	221.59004	27	252.07010	27	282.55017
28	8.53442	28	39.01448	28	69.49454	28	99.97460	28	130.45466	28	160.93472	28	191.41478	28	221.89484	28	252.37490	28	282.85497
29	8.83922	29	39.31928	29	69.79934	29	100.27940	29	130.75946	29	161.23952	29	191.71958	29	222.19964	29	252.67971	29	283.15977
30	9.14402	130	39.62408	230	70.10414	330	100.58420	430	131.06426	530	161.54432	630	192.02438	730	222.50445	830	252.98451	930	283.46457
31	9.44882	31	39.92888	31	70.40894	31	100.88900	31	131.36906	31	161.84912	31	192.32918	31	222.80925	31	253.28931	31	283.76937
32	9.75362	32	40.23368	32	70.71374	32	101.19380	32	131.67386	32	162.15392	32	192.63399	32	223.11405	32	253.59411	32	284.07417
33	10.05842	33	40.53848	33	71.01854	33	101.49860	33	131.97866	33	162.45872	33	192.93879	33	223.41885	33	253.89891	33	284.37897
34	10.36322	34	40.84328	34	71.32334	34	101.80340	34	132.28346	34	162.76353	34	193.24359	34	223.72365	34	254.20371	34	284.68377
35	10.66802	35	41.14808	35	71.62814	35	102.10820	35	132.58827	35	163.06833	35	193.54839	35	224.02845	35	254.50851	35	284.98857
36	10.97282	36	41.45288	36	71.93294	36	102.41300	36	132.89307	36	163.37313	36	193.85319	36	224.33325	36	254.81331	36	285.29337
37	11.27762	37	41.75768	37	72.23774	37	102.71781	37	133.19787	37	163.67793	37	194.15799	37	224.63805	37	255.11811	37	285.59817
38	11.58242	38	42.06248	38	72.54255	38	103.02261	38	133.50267	38	163.98273	38	194.46279	38	224.94285	38	255.42291	38	285.90297
39	11.88722	39	42.36728	39	72.84735	39	103.32741	39	133.80747	39	164.28753	39	194.76759	39	225.24765	39	255.72771	39	286.20777
40	12.19202	140	42.67209	240	73.15215	340	103.63221	440	134.11227	540	164.59233	640	195.07239	740	225.55245	840	256.03251	940	286.51257
41	12.49682	41	42.97689	41	73.45695	41	103.93701	41	134.41707	41	164.89713	41	195.37719	41	225.85725	41	256.33731	41	286.81737
42	12.80163	42	43.28169	42	73.76175	42	104.24181	42	134.72187	42	165.20193	42	195.68199	42	226.16205	42	256.64211	42	287.12217
43	13.10643	43	43.58649	43	74.06655	43	104.54661	43	135.02667	43	165.50673	43	195.98679	43	226.46685	43	256.94691	43	287.42697
44	13.41123	44	43.89129	44	74.37135	44	104.85141	44	135.33147	44	165.81153	44	196.29159	44	226.77165	44	257.25171	44	287.73178
45	13.71603	45	44.19609	45	74.67615	45	105.15621	45	135.63627	45	166.11633	45	196.59639	45	227.07645	45	257.55652	45	288.03658
46	14.02083	46	44.50089	46	74.98095	46	105.46101	46	135.94107	46	166.42113	46	196.90119	46	227.38125	46	257.86132	46	288.34138
47	14.32563	47	44.80569	47	75.28575	47	105.76581	47	136.24587	47	166.72593	47	197.20599	47	227.68606	47	258.16612	47	288.64618
48	14.63043	48	45.11049	48	75.59055	48	106.07061	48	136.55067	48	167.03073	48	197.51080	48	227.99086	48	258.47092	48	288.95098
49	14.93523	49	45.41529	49	75.89535	49	106.37541	49	136.85547	49	167.33553	49	197.81560	49	228.29566	49	258.77572	49	289.25578

	15.24003	150	45.72009	250	76.20015	350	106.68021	450	137.16027	550	167.64034	650	198.12040	750	228.60046	850	259.08052	950	289.56058
1	15.54483	1	46.02489	1	76.50495	1	106.98501	1	137.46507	1	167.94514	1	198.42520	1	228.90526	1	259.38532	1	289.86538
2	15.84963	2	46.32969	2	76.80975	2	107.28981	2	137.76988	2	168.24994	2	198.73000	2	229.21006	2	259.69012	2	290.17018
3	16.15443	3	46.63449	3	77.11455	3	107.59462	3	138.07468	3	168.55474	3	199.03480	3	229.51486	3	259.99492	3	290.47498
4	16.45923	4	46.93929	4	77.41935	4	107.89942	4	138.37948	4	168.85954	4	199.33960	4	229.81966	4	260.29972	4	290.77978
5	16.76403	5	47.24409	5	77.72416	5	108.20422	5	138.68428	5	169.16434	5	199.64440	5	230.12446	5	260.60452	5	291.08458
6	17.06883	6	47.54890	6	78.02896	6	108.50902	6	138.98908	6	169.46914	6	199.94920	6	230.42926	6	260.90932	6	291.38938
7	17.37363	7	47.85370	7	78.33376	7	108.81382	7	139.29388	7	169.77394	7	200.25400	7	230.73406	7	261.21412	7	291.69418
8	17.67844	8	48.15850	8	78.63856	8	109.11862	8	139.59868	8	170.07874	8	200.55880	8	231.03886	8	261.51892	8	291.99898
9	17.98324	9	48.46330	9	78.94336	9	109.42342	9	139.90348	9	170.38354	9	200.86360	9	231.34366	9	261.82372	9	292.30378
60	18.28804	160	48.76810	260	79.24816	360	109.72822	460	140.20828	560	170.68834	660	201.16840	760	231.64846	860	262.12852	960	292.60859
1	18.59284	1	49.07290	1	79.55296	1	110.03302	1	140.51308	1	170.99314	1	201.47320	1	231.95326	1	262.43332	1	292.91339
2	18.89764	2	49.37770	2	79.85776	2	110.33782	2	140.81788	2	171.29794	2	201.77800	2	232.25806	2	262.73813	2	293.21819
3	19.20244	3	49.68250	3	80.16256	3	110.64262	3	141.12268	3	171.60274	3	202.08280	3	232.56287	3	263.04293	3	293.52299
4	19.50724	4	49.98730	4	80.46736	4	110.94742	4	141.42748	4	171.90754	4	202.38760	4	232.86767	4	263.34773	4	293.82779
5	19.81204	5	50.29210	5	80.77216	5	111.25222	5	141.73228	5	172.21234	5	202.69241	5	233.17247	5	263.65253	5	294.13259
6	20.11684	6	50.59690	6	81.07696	6	111.55702	6	142.03708	6	172.51715	6	202.99721	6	233.47727	6	263.95733	6	294.43739
7	20.42164	7	50.90170	7	81.38176	7	111.86182	7	142.34188	7	172.82195	7	203.30201	7	233.78207	7	264.26213	7	294.74219
8	20.72644	8	51.20650	8	81.68656	8	112.16662	8	142.64669	8	173.12675	8	203.60681	8	234.08687	8	264.56693	8	295.04699
9	21.03124	9	51.51130	9	81.99136	9	112.47142	9	142.95149	9	173.43155	9	203.91161	9	234.39167	9	264.87173	9	295.35179
70	21.33604	170	51.81610	270	82.29616	370	112.77623	470	143.25629	570	173.73635	670	204.21641	770	234.69647	870	265.17653	970	295.65659
1	21.64084	1	52.12090	1	82.60097	1	113.08103	1	143.56109	1	174.04115	1	204.52121	1	235.00127	1	265.48133	1	295.96139
2	21.94564	2	52.42570	2	82.90577	2	113.38583	2	143.86589	2	174.34595	2	204.82601	2	235.30607	2	265.78613	2	296.26619
3	22.25044	3	52.73051	3	83.21057	3	113.69063	3	144.17069	3	174.65075	3	205.13081	3	235.61087	3	266.09093	3	296.57099
4	22.55525	4	53.03531	4	83.51537	4	113.99543	4	144.47549	4	174.95555	4	205.43561	4	235.91567	4	266.39573	4	296.87579
5	22.86005	5	53.34011	5	83.82017	5	114.30023	5	144.78029	5	175.26035	5	205.74041	5	236.22047	5	266.70053	5	297.18059
6	23.16485	6	53.64491	6	84.12497	6	114.60503	6	145.08509	6	175.56515	6	206.04521	6	236.52527	6	267.00533	6	297.48539
7	23.46965	7	53.94971	7	84.42977	7	114.90983	7	145.38989	7	175.86995	7	206.35001	7	236.83007	7	267.31013	7	297.79020
8	23.77445	8	54.25451	8	84.73457	8	115.21463	8	145.69469	8	176.17475	8	206.65481	8	237.13487	8	267.61494	8	298.09500
9	24.07925	9	54.55931	9	85.03937	9	115.51943	9	145.99949	9	176.47955	9	206.95961	9	237.43967	9	267.91974	9	298.39980
80	24.38405	180	54.86411	280	85.34417	380	115.82423	480	146.30429	580	176.78435	680	207.26441	780	237.74448	880	268.22454	980	298.70460
1	24.68885	1	55.16891	1	85.64897	1	116.12903	1	146.60909	1	177.08915	1	207.56922	1	238.04928	1	268.52934	1	299.00940
2	24.99365	2	55.47371	2	85.95377	2	116.43383	2	146.91389	2	177.39395	2	207.87402	2	238.35408	2	268.83414	2	299.31420
3	25.29845	3	55.77851	3	86.25857	3	116.73863	3	147.21869	3	177.69876	3	208.17882	3	238.65888	3	269.13894	3	299.61900
4	25.60325	4	56.08331	4	86.56337	4	117.04343	4	147.52350	4	178.00356	4	208.48362	4	238.96368	4	269.44374	4	299.92380
5	25.90805	5	56.38811	5	86.86817	5	117.34823	5	147.82830	5	178.30836	5	208.78842	5	239.26848	5	269.74854	5	300.22860
6	26.21285	6	56.69291	6	87.17297	6	117.65304	6	148.13310	6	178.61316	6	209.09322	6	239.57328	6	270.05334	6	300.53340
7	26.51765	7	56.99771	7	87.47777	7	117.95784	7	148.43790	7	178.91796	7	209.39802	7	239.87808	7	270.35814	7	300.83820
8	26.82245	8	57.30251	8	87.78258	8	118.26264	8	148.74270	8	179.22276	8	209.70282	8	240.18288	8	270.66294	8	301.14300
9	27.12725	9	57.60732	9	88.08738	9	118.56744	9	149.04750	9	179.52756	9	210.00762	9	240.48768	9	270.96774	9	301.44780
90	27.43205	190	57.91212	290	88.39218	390	118.87224	490	149.35230	590	179.83236	690	210.31242	790	240.79248	890	271.27254	990	301.75260
1	27.73686	1	58.21692	1	88.69698	1	119.17704	1	149.65710	1	180.13716	1	210.61722	1	241.09728	1	271.57734	1	302.05740
2	28.04166	2	58.52172	2	89.00178	2	119.48184	2	149.96190	2	180.44196	2	210.92202	2	241.40208	2	271.88214	2	302.36220
3	28.34646	3	58.82652	3	89.30658	3	119.78664	3	150.26670	3	180.74676	3	211.22682	3	241.70688	3	272.18694	3	302.66701
4	28.65126	4	59.13132	4	89.61138	4	120.09144	4	150.57150	4	181.05156	4	211.53162	4	242.01168	4	272.49174	4	302.97181
5	28.95606	5	59.43612	5	89.91618	5	120.39624	5	150.87630	5	181.35636	5	211.83642	5	242.31648	5	272.79655	5	303.27661
6	29.26086	6	59.74092	6	90.22098	6	120.70104	6	151.18110	6	181.66116	6	212.14122	6	242.62129	6	273.10135	6	303.58141
7	29.56566	7	60.04572	7	90.52578	7	121.00584	7	151.48590	7	181.96596	7	212.44602	7	242.92609	7	273.40615	7	303.88621
8	29.87046	8	60.35052	8	90.83058	8	121.31064	8	151.79070	8	182.27076	8	212.75083	8	243.23089	8	273.71095	8	304.19101
9	30.17526	9	60.65532	9	91.13538	9	121.61544	9	152.09550	9	182.57557	9	213.05563	9	243.53569	9	274.01575	9	304.49581

1 inch = 0.02540 meter
2 inches = .05080 meter
3 inches = .07620 meter
4 inches = 0.10160 meter
5 inches = .12700 meter
6 inches = .15240 meter
7 inches = 0.17780 meter
8 inches = .20320 meter
9 inches = .22860 meter
10 inches = 0.25400 meter
11 inches = .27940 meter
12 inches = .30480 meter

LENGTH—METERS TO FEET

[Reduction factor: 1 meter = 3.28083333 feet]

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
900	2,952.75000	910	2,985.55833	920	3,018.36667	930	3,051.17500	940	3,083.98333
1	2,956.03083	1	2,988.83917	1	3,021.64750	1	3,054.45583	1	3,087.26417
2	2,959.31167	2	2,992.12000	2	3,024.92833	2	3,057.73667	2	3,090.54500
3	2,962.59250	3	2,995.40083	3	3,028.20917	3	3,061.01750	3	3,093.82583
4	2,965.87333	4	2,998.68167	4	3,031.49000	4	3,064.29833	4	3,097.10667
5	2,969.15417	5	3,001.96250	5	3,034.77083	5	3,067.57917	5	3,100.38750
6	2,972.43500	6	3,005.24333	6	3,038.05167	6	3,070.86000	6	3,103.66833
7	2,975.71583	7	3,008.52417	7	3,041.33250	7	3,074.14083	7	3,106.94917
8	2,978.99667	8	3,011.80500	8	3,044.61333	8	3,077.42167	8	3,110.23000
9	2,982.27750	9	3,015.08583	9	3,047.89417	9	3,080.70250	9	3,113.51083

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
800	2,624.66667	810	2,657.47500	820	2,690.28333	830	2,723.09167	840	2,755.90000
1	2,627.94750	1	2,660.75583	1	2,693.56417	1	2,726.37250	1	2,759.18083
2	2,631.22833	2	2,664.03667	2	2,696.84500	2	2,729.65333	2	2,762.46167
3	2,634.50917	3	2,667.31750	3	2,700.12583	3	2,732.93417	3	2,765.74250
4	2,637.79000	4	2,670.59833	4	2,703.40667	4	2,736.21500	4	2,769.02333
5	2,641.07083	5	2,673.87917	5	2,706.68750	5	2,739.49583	5	2,772.30417
6	2,644.35167	6	2,677.16000	6	2,709.96833	6	2,742.77667	6	2,775.58500
7	2,647.63250	7	2,680.44083	7	2,713.24917	7	2,746.05750	7	2,778.86583
8	2,650.91333	8	2,683.72167	8	2,716.53000	8	2,749.33833	8	2,782.14667
9	2,654.19417	9	2,687.00250	9	2,719.81083	9	2,752.61917	9	2,785.42750

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
700	2,296.58333	710	2,329.39167	720	2,362.20000	730	2,395.00833	740	2,427.81667
1	2,299.86417	1	2,332.67250	1	2,365.48083	1	2,398.28917	1	2,431.09750
2	2,303.14500	2	2,335.95333	2	2,368.76167	2	2,401.57000	2	2,434.37833
3	2,306.42583	3	2,339.23417	3	2,372.04250	3	2,404.85083	3	2,437.65917
4	2,309.70667	4	2,342.51500	4	2,375.32333	4	2,408.13167	4	2,440.94000
5	2,312.98750	5	2,345.79583	5	2,378.60417	5	2,411.41250	5	2,444.22083
6	2,316.26833	6	2,349.07667	6	2,381.88500	6	2,414.69333	6	2,447.50167
7	2,319.54917	7	2,352.35750	7	2,385.16583	7	2,417.97417	7	2,450.78250
8	2,322.83000	8	2,355.63833	8	1,388.44667	8	2,421.25500	8	2,454.06333
9	2,326.11083	9	2,358.91917	9	2,391.72750	9	2,424.53583	9	2,457.34417

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
600	1,968.50000	610	2,001.30833	620	2,034.11667	630	2,066.92500	640	2,099.73333
1	1,971.78083	1	2,004.58917	1	2,037.39750	1	2,070.20583	1	2,103.01417
2	1,975.06167	2	2,007.87000	2	2,040.67833	2	2,073.48667	2	2,106.29500
3	1,978.34250	3	2,011.15083	3	2,043.95917	3	2,076.76750	3	2,109.57583
4	1,981.62333	4	2,014.43167	4	2,047.24000	4	2,080.04833	4	2,112.85667
5	1,984.90417	5	2,017.71250	5	2,050.52083	5	2,083.32917	5	2,116.13750
6	1,988.18500	6	2,020.99333	6	2,053.80167	6	2,086.61000	6	2,119.41833
7	1,991.46583	7	2,024.27417	7	2,057.08250	7	2,089.89083	7	2,122.69917
8	1,994.74667	8	2,027.55500	8	2,060.36333	8	2,093.17167	8	2,125.98000
9	1,998.02750	9	2,030.83583	9	2,063.64417	9	2,096.45250	9	2,129.26083

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
500	1,640.41667	510	1,673.22500	520	1,706.03333	530	1,738.84167	540	1,771.65000
1	1,643.69750	1	1,676.50583	1	1,709.31417	1	1,742.12250	1	1,774.93083
2	1,646.97833	2	1,679.78667	2	1,712.59500	2	1,745.40333	2	1,778.21167
3	1,650.25917	3	1,683.06750	3	1,715.87583	3	1,748.68417	3	1,781.49250
4	1,653.54000	4	1,686.34833	4	1,719.15667	4	1,751.96500	4	1,784.77333
5	1,656.82083	5	1,689.62917	5	1,722.43750	5	1,755.24583	5	1,788.05417
6	1,660.10167	6	1,692.91000	6	1,725.71833	6	1,758.52667	6	1,791.33500
7	1,663.38250	7	1,696.19083	7	1,728.99917	7	1,761.80750	7	1,794.61583
8	1,666.66333	8	1,699.47167	8	1,732.28000	8	1,765.08833	8	1,797.89667
9	1,669.94417	9	1,702.75250	9	1,735.56083	9	1,768.36917	9	1,801.17750

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
400	1,312.33333	410	1,345.14167	420	1,377.95000	430	1,410.75833	440	1,443.56667
1	1,315.61417	1	1,348.42250	1	1,381.23083	1	1,414.03917	1	1,446.84750
2	1,318.89500	2	1,351.70333	2	1,384.51167	2	1,417.32000	2	1,450.12833
3	1,322.17583	3	1,354.98417	3	1,387.79250	3	1,420.60083	3	1,453.40917
4	1,325.45667	4	1,358.26500	4	1,391.07333	4	1,423.88167	4	1,456.69000
5	1,328.73750	5	1,361.54583	5	1,394.35417	5	1,427.16250	5	1,459.97083
6	1,332.01833	6	1,364.82667	6	1,397.63500	6	1,430.44333	6	1,463.25167
7	1,335.29917	7	1,368.10750	7	1,400.91583	7	1,433.72417	7	1,466.53250
8	1,338.58000	8	1,371.38833	8	1,404.19667	8	1,437.00500	8	1,469.81333
9	1,341.86083	9	1,374.66917	9	1,407.47750	9	1,440.28583	9	1,473.09417

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
300	984.25000	310	1,017.05833	320	1,049.86667	330	1,082.67500	340	1,115.48333
1	987.53083	1	1,020.33917	1	1,053.14750	1	1,085.95583	1	1,118.76417
2	990.81167	2	1,023.62000	2	1,056.42833	2	1,089.23667	2	1,122.04500
3	994.09250	3	1,026.90083	3	1,059.70917	3	1,092.51750	3	1,125.32583
4	997.37333	4	1,030.18167	4	1,062.99000	4	1,095.79833	4	1,128.60667
5	1,000.65417	5	1,033.46250	5	1,066.27083	5	1,099.07917	5	1,131.88750
6	1,003.93500	6	1,036.74333	6	1,069.55167	6	1,102.36000	6	1,135.16833
7	1,007.21583	7	1,040.02417	7	1,072.83250	7	1,105.64083	7	1,138.44917
8	1,010.49667	8	1,043.30500	8	1,076.11333	8	1,108.92167	8	1,141.73000
9	1,013.77750	9	1,046.58583	9	1,079.39417	9	1,112.20250	9	1,145.01083

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
200	656.16667	210	688.97500	220	721.78333	230	754.59167	240	787.40000
1	659.44750	1	692.25583	1	725.06417	1	757.87250	1	790.68083
2	662.72833	2	695.53667	2	728.34500	2	761.15333	2	793.96167
3	666.00917	3	698.81750	3	731.62583	3	764.43417	3	797.24250
4	669.29000	4	702.09833	4	734.90667	4	767.71500	4	800.52333
5	672.57083	5	705.37917	5	738.18750	5	770.99583	5	803.80417
6	675.85167	6	708.66000	6	741.46833	6	774.27667	6	807.08500
7	679.13250	7	711.94083	7	744.74917	7	777.55750	7	810.36583
8	682.41333	8	715.22167	8	748.03000	8	780.83833	8	813.64667
9	685.69417	9	718.50250	9	751.31083	9	784.11917	9	816.92750

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
100	328.08333	110	360.89167	120	393.70000	130	426.50833	140	459.31667
1	331.36417	1	364.17250	1	396.98083	1	429.78917	1	462.59750
2	334.64500	2	367.45333	2	400.26167	2	433.07000	2	465.87833
3	337.92583	3	370.73417	3	403.54250	3	436.35083	3	469.15917
4	341.20667	4	374.01500	4	406.82333	4	439.63167	4	472.44000
5	344.48750	5	377.29583	5	410.10417	5	442.91250	5	475.72083
6	347.76833	6	380.57667	6	413.38500	6	446.19333	6	479.00167
7	351.04917	7	383.85750	7	416.66583	7	449.47417	7	482.28250
8	354.33000	8	387.13833	8	419.94667	8	452.75500	8	485.56333
9	357.61083	9	390.41917	9	423.22750	9	456.03583	9	488.84417

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
0		10	32.80833	20	65.61667	30	98.42500	40	131.23333
1	3.28083	1	36.08917	1	68.89750	1	101.70583	1	134.51417
2	6.56167	2	39.37000	2	72.17833	2	104.98667	2	137.79500
3	9.84250	3	42.65083	3	75.45917	3	108.26750	3	141.07583
4	13.12333	4	45.93167	4	78.74000	4	111.54833	4	144.35667
5	16.40417	5	49.21250	5	82.02083	5	114.82917	5	147.63750
6	19.68500	6	52.49333	6	85.30167	6	118.11000	6	150.91833
7	22.96583	7	55.77417	7	88.58250	7	121.39083	7	154.19917
8	26.24667	8	59.05500	8	91.86333	8	124.67167	8	157.48000
9	29.52750	9	62.33583	9	95.14417	9	127.95250	9	160.76083

	50	150	250	350	450	550	650	750	850	950
0	164.04167	492.12500	820.20833	1,148.29167	1,476.37500	1,804.45833	2,132.54167	2,460.62500	2,788.70833	3,116.79167
1	167.32250	495.40583	823.48917	1,151.57250	1,479.65583	1,807.73917	2,135.82250	2,463.90583	2,791.93917	3,120.07250
2	170.60333	498.68667	826.77000	1,154.85333	1,482.93667	1,811.02000	2,139.10333	2,467.18667	2,795.27000	3,123.35333
3	173.88417	501.96750	830.05083	1,158.13417	1,486.21750	1,814.30083	2,142.38417	2,470.46750	2,798.55083	3,126.63417
4	177.16500	505.24833	833.33167	1,161.41500	1,489.49833	1,817.58167	2,145.66500	2,473.74833	2,801.83167	3,129.91500
5	180.44583	508.52917	836.61250	1,164.69583	1,492.77917	1,820.86250	2,148.94583	2,477.02917	2,805.11250	3,133.19583
6	183.72667	511.81000	839.89333	1,167.97667	1,496.06000	1,824.14333	2,152.22667	2,480.31000	2,808.39333	3,136.47667
7	187.00750	515.09083	843.17417	1,171.25750	1,499.34083	1,827.42417	2,155.50750	2,483.59083	2,811.67417	3,139.75750
8	190.28833	518.37167	846.45500	1,174.53833	1,502.62167	1,830.70500	2,158.78833	2,486.87167	2,814.95500	3,143.03833
9	193.56917	521.65250	849.73583	1,177.81917	1,505.90250	1,833.98583	2,162.06917	2,490.15250	2,818.23583	3,146.31917

	60	160	260	360	460	560	660	760	860	960
0	196.85000	524.93333	853.01667	1,181.10000	1,509.18333	1,837.26667	2,165.35000	2,493.43333	2,821.51667	3,149.60000
1	200.13083	528.21417	856.29750	1,184.38083	1,512.46417	1,840.54750	2,168.63083	2,496.71417	2,824.79750	3,152.88083
2	203.41167	531.49500	859.57833	1,187.66167	1,515.74500	1,843.82833	2,171.91167	2,499.99500	2,828.07833	3,156.16167
3	206.69250	534.77583	862.85917	1,190.94250	1,519.02583	1,847.10917	2,175.19250	2,503.27583	2,831.35917	3,159.44250
4	209.97333	538.05667	866.14000	1,194.22333	1,522.30667	1,850.39000	2,178.47333	2,506.55667	2,834.64000	3,162.72333
5	213.25417	541.33750	869.42083	1,197.50417	1,525.58750	1,853.67083	2,181.75417	2,509.83750	2,837.92083	3,166.00417
6	216.53500	544.61833	872.70167	1,200.78500	1,528.86833	1,856.95167	2,185.03500	2,513.11833	2,841.20167	3,169.28500
7	219.81583	547.89917	875.98250	1,204.06583	1,532.14917	1,860.23250	2,188.31583	2,516.39917	2,844.48250	3,172.56583
8	223.09667	551.18000	879.26333	1,207.34667	1,535.43000	1,863.51333	2,191.59667	2,519.68000	2,847.76333	3,175.84667
9	226.37750	554.46083	882.54417	1,210.62750	1,538.71083	1,866.79417	2,194.87750	2,522.96083	2,851.04417	3,179.12750

	70	170	270	370	470	570	670	770	870	970
0	229.65833	557.74167	885.82500	1,213.90833	1,541.99167	1,870.07500	2,198.15833	2,526.24167	2,854.32500	3,182.40833
1	232.93917	561.02250	889.10583	1,217.18917	1,545.27250	1,873.35583	2,201.43917	2,529.52250	2,857.60583	3,185.68917
2	236.22000	564.30333	892.38667	1,220.47000	1,548.55333	1,876.63667	2,204.72000	2,532.80333	2,860.88667	3,188.97000
3	239.50083	567.58417	895.66750	1,223.75083	1,551.83417	1,879.91750	2,208.00083	2,536.08417	2,864.16750	3,192.25083
4	242.78167	570.86500	898.94833	1,227.03167	1,555.11500	1,883.19833	2,211.28167	2,539.36500	2,867.44833	3,195.53167
5	246.06250	574.14583	902.22917	1,230.31250	1,558.39583	1,886.47917	2,214.56250	2,542.64583	2,870.72917	3,198.81250
6	249.34333	577.42667	905.51000	1,233.59333	1,561.67667	1,889.76000	2,217.84333	2,545.92667	2,874.01000	3,202.09333
7	252.62417	580.70750	908.79083	1,236.87417	1,564.95750	1,893.04083	2,221.12417	2,549.20750	2,877.29083	3,205.37417
8	255.90500	583.98833	912.07167	1,240.15500	1,568.23833	1,896.32167	2,224.40500	2,552.48833	2,880.57167	3,208.65500
9	259.18583	587.26917	915.35250	1,243.43583	1,571.51917	1,899.60250	2,227.68583	2,555.76917	2,883.85250	3,211.93583

	80	180	280	380	480	580	680	780	880	980
0	262.46667	590.55000	918.63333	1,246.71667	1,574.80000	1,902.88333	2,230.96667	2,559.05000	2,887.13333	3,215.21667
1	265.74750	593.83083	921.91417	1,249.99750	1,578.08083	1,906.16417	2,234.24750	2,562.33083	2,890.41417	3,218.49750
2	269.02833	597.11167	925.19500	1,253.27833	1,581.36167	1,909.44500	2,237.52833	2,565.61167	2,893.69500	3,221.77833
3	272.30917	600.39250	928.47583	1,256.55917	1,584.64250	1,912.72583	2,240.80917	2,568.89250	2,896.97583	3,225.05917
4	275.59000	603.67333	931.75667	1,259.84000	1,587.92333	1,916.00667	2,244.09000	2,572.17333	2,900.25667	3,228.34000
5	278.87083	606.95417	935.03750	1,263.12083	1,591.20417	1,919.28750	2,247.37083	2,575.45417	2,903.53750	3,231.62083
6	282.15167	610.23500	938.31833	1,266.40167	1,594.48500	1,922.56833	2,250.65167	2,578.73500	2,906.81833	3,234.90167
7	285.43250	613.51583	941.59917	1,269.68250	1,597.76583	1,925.84917	2,253.93250	2,582.01583	2,910.09917	3,238.18250
8	288.71333	616.79667	944.88000	1,272.96333	1,601.04667	1,929.13000	2,257.21333	2,585.29667	2,913.38000	3,241.46333
9	291.99417	620.07750	948.16083	1,276.24417	1,604.32750	1,932.41083	2,260.49417	2,588.57750	2,916.66083	3,244.74417

	90	190	290	390	490	590	690	790	890	990
0	295.27500	623.35833	951.44167	1,279.52500	1,607.60833	1,935.69167	2,263.77500	2,591.85833	2,919.94167	3,248.02500
1	298.55583	626.63917	954.72250	1,282.80583	1,610.88917	1,938.97250	2,267.05583	2,595.13917	2,923.22250	3,251.30583
2	301.83667	629.92000	958.00333	1,286.08667	1,614.17000	1,942.25333	2,270.33667	2,598.42000	2,926.50333	3,254.58667
3	305.11750	633.20083	961.28417	1,289.36750	1,617.45083	1,945.53417	2,273.61750	2,601.70083	2,929.78417	3,257.86750
4	308.39833	636.48167	964.56500	1,292.64833	1,620.73167	1,948.81500	2,276.89833	2,604.98167	2,933.06500	3,261.14833
5	311.67917	639.76250	967.84583	1,295.92917	1,624.01250	1,952.09583	2,280.17917	2,608.26250	2,936.34583	3,264.42917
6	314.96000	643.04333	971.12667	1,299.21000	1,627.29333	1,955.37667	2,283.46000	2,611.54333	2,939.62667	3,267.71000
7	318.24083	646.32417	974.40750	1,302.49083	1,630.57417	1,958.65750	2,286.74083	2,614.82417	2,942.90750	3,270.99083
8	321.52167	649.60500	977.68833	1,305.77167	1,633.85500	1,961.93833	2,290.02167	2,618.10500	2,946.18833	3,274.27167
9	324.80250	652.88583	980.96917	1,309.05250	1,637.13583	1,965.21917	2,293.30250	2,621.38583	2,949.46917	3,277.55250

LENGTH—MILES TO KILOMETERS

[Reduction factor: 1 mile=1.609347219 kilometers]

Top half (Miles 500–949)

Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
500	804.6736	600	965.6083	700	1,126.5431	800	1,287.4778	900	1,448.4125
1	806.2830	1	967.2177	1	1,128.1524	1	1,289.0871	1	1,450.0218
2	807.8923	2	968.8270	2	1,129.7617	2	1,290.6965	2	1,451.6312
3	809.5017	3	970.4364	3	1,131.3711	3	1,292.3058	3	1,453.2405
4	811.1110	4	972.0457	4	1,132.9804	4	1,293.9152	4	1,454.8499
5	812.7203	5	973.6551	5	1,134.5898	5	1,295.5245	5	1,456.4592
6	814.3297	6	975.2644	6	1,136.1991	6	1,297.1339	6	1,458.0686
7	815.9390	7	976.8738	7	1,137.8085	7	1,298.7432	7	1,459.6779
8	817.5484	8	978.4831	8	1,139.4178	8	1,300.3526	8	1,461.2873
9	819.1577	9	980.0925	9	1,141.0272	9	1,301.9619	9	1,462.8966
510	820.7671	610	981.7018	710	1,142.6365	810	1,303.5712	910	1,464.5060
1	822.3764	1	983.3112	1	1,144.2459	1	1,305.1806	1	1,466.1153
2	823.9858	2	984.9205	2	1,145.8552	2	1,306.7899	2	1,467.7247
3	825.5951	3	986.5298	3	1,147.4646	3	1,308.3993	3	1,469.3340
4	827.2045	4	988.1392	4	1,149.0739	4	1,310.0086	4	1,470.9434
5	828.8138	5	989.7485	5	1,150.6833	5	1,311.6180	5	1,472.5527
6	830.4232	6	991.3579	6	1,152.2926	6	1,313.2273	6	1,474.1621
7	832.0325	7	992.9672	7	1,153.9020	7	1,314.8367	7	1,475.7714
8	833.6419	8	994.5766	8	1,155.5113	8	1,316.4460	8	1,477.3807
9	835.2512	9	996.1859	9	1,157.1207	9	1,318.0554	9	1,478.9901
520	836.8606	620	997.7953	720	1,158.7300	820	1,319.6647	920	1,480.5994
1	838.4699	1	999.4046	1	1,160.3393	1	1,321.2741	1	1,482.2088
2	840.0792	2	1,001.0140	2	1,161.9487	2	1,322.8834	2	1,483.8181
3	841.6886	3	1,002.6233	3	1,163.5580	3	1,324.4928	3	1,485.4275
4	843.2979	4	1,004.2327	4	1,165.1674	4	1,326.1021	4	1,487.0368
5	844.9073	5	1,005.8420	5	1,166.7767	5	1,327.7115	5	1,488.6462
6	846.5166	6	1,007.4514	6	1,168.3861	6	1,329.3208	6	1,490.2555
7	848.1260	7	1,009.0607	7	1,169.9954	7	1,330.9301	7	1,491.8649
8	849.7353	8	1,010.6701	8	1,171.6048	8	1,332.5395	8	1,493.4742
9	851.3447	9	1,012.2794	9	1,173.2141	9	1,334.1488	9	1,495.0836
530	852.9540	630	1,013.8887	730	1,174.8235	830	1,335.7582	930	1,496.6929
1	854.5634	1	1,015.4981	1	1,176.4328	1	1,337.3675	1	1,498.3023
2	856.1727	2	1,017.1074	2	1,178.0422	2	1,338.9769	2	1,499.9116
3	857.7821	3	1,018.7168	3	1,179.6515	3	1,340.5862	3	1,501.5210
4	859.3914	4	1,020.3261	4	1,181.2609	4	1,342.1956	4	1,503.1303
5	861.0008	5	1,021.9355	5	1,182.8702	5	1,343.8049	5	1,504.7396
6	862.6101	6	1,023.5448	6	1,184.4796	6	1,345.4143	6	1,506.3490
7	864.2195	7	1,025.1542	7	1,186.0889	7	1,347.0236	7	1,507.9583
8	865.8288	8	1,026.7635	8	1,187.6982	8	1,348.6330	8	1,509.5677
9	867.4382	9	1,028.3729	9	1,189.3076	9	1,350.2423	9	1,511.1770
540	869.0475	640	1,029.9822	740	1,190.9169	840	1,351.8517	940	1,512.7864
1	870.6568	1	1,031.5916	1	1,192.5263	1	1,353.4610	1	1,514.3957
2	872.2662	2	1,033.2009	2	1,194.1356	2	1,355.0704	2	1,516.0051
3	873.8755	3	1,034.8103	3	1,195.7450	3	1,356.6797	3	1,517.6144
4	875.4849	4	1,036.4196	4	1,197.3543	4	1,358.2891	4	1,519.2238
5	877.0942	5	1,038.0290	5	1,198.9637	5	1,359.8984	5	1,520.8331
6	878.7036	6	1,039.6383	6	1,200.5730	6	1,361.5077	6	1,522.4425
7	880.3129	7	1,041.2477	7	1,202.1824	7	1,363.1171	7	1,524.0518
8	881.9223	8	1,042.8570	8	1,203.7917	8	1,364.7264	8	1,525.6612
9	883.5316	9	1,044.4663	9	1,205.4011	9	1,366.3358	9	1,527.2705

Bottom half (Miles 0–449)

Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
0		100	160.9347	200	321.8694	300	482.8042	400	643.7389
1	1.6093	1	162.5441	1	323.4788	1	484.4135	1	645.3482
2	3.2187	2	164.1534	2	325.0881	2	486.0229	2	646.9576
3	4.8280	3	165.7628	3	326.6975	3	487.6322	3	648.5669
4	6.4374	4	167.3721	4	328.3068	4	489.2416	4	650.1763
5	8.0467	5	168.9815	5	329.9162	5	490.8509	5	651.7856
6	9.6561	6	170.5908	6	331.5255	6	492.4602	6	653.3950
7	11.2654	7	172.2002	7	333.1349	7	494.0696	7	655.0043
8	12.8748	8	173.8095	8	334.7442	8	495.6789	8	656.6137
9	14.4841	9	175.4188	9	336.3536	9	497.2883	9	658.2230
10	16.0935	110	177.0282	210	337.9629	310	498.8976	410	659.8324
1	17.7028	1	178.6375	1	339.5723	1	500.5070	1	661.4417
2	19.3122	2	180.2469	2	341.1816	2	502.1163	2	663.0511
3	20.9215	3	181.8562	3	342.7910	3	503.7257	3	664.6604
4	22.5309	4	183.4656	4	344.4003	4	505.3350	4	666.2697
5	24.1402	5	185.0749	5	346.0097	5	506.9444	5	667.8791
6	25.7496	6	186.6843	6	347.6190	6	508.5537	6	669.4884
7	27.3589	7	188.2936	7	349.2283	7	510.1631	7	671.0978
8	28.9682	8	189.9030	8	350.8377	8	511.7724	8	672.7071
9	30.5776	9	191.5123	9	352.4470	9	513.3818	9	674.3165
20	32.1869	120	193.1217	220	354.0564	320	514.9911	420	675.9258
1	33.7963	1	194.7310	1	355.6657	1	516.6005	1	677.5352
2	35.4056	2	196.3404	2	357.2751	2	518.2098	2	679.1445
3	37.0150	3	197.9497	3	358.8844	3	519.8192	3	680.7539
4	38.6243	4	199.5591	4	360.4938	4	521.4285	4	682.3632
5	40.2337	5	201.1684	5	362.1031	5	523.0378	5	683.9726
6	41.8430	6	202.7777	6	363.7125	6	524.6472	6	685.5819
7	43.4524	7	204.3871	7	365.3218	7	526.2565	7	687.1913
8	45.0617	8	205.9954	8	366.9312	8	527.8659	8	688.8006
9	46.6711	9	207.6058	9	368.5405	9	529.4752	9	690.4100
30	48.2804	130	209.2151	230	370.1499	330	531.0846	430	692.0193
1	49.8898	1	210.8245	1	371.7592	1	532.6939	1	693.6287
2	51.4991	2	212.4338	2	373.3686	2	534.3033	2	695.2380
3	53.1085	3	214.0432	3	374.9779	3	535.9126	3	696.8473
4	54.7178	4	215.6525	4	376.5872	4	537.5220	4	698.4567
5	56.3272	5	217.2619	5	378.1966	5	539.1313	5	700.0660
6	57.9365	6	218.8712	6	379.8059	6	540.7407	6	701.6754
7	59.5458	7	220.4806	7	381.4153	7	542.3500	7	703.2847
8	61.1552	8	222.0899	8	383.0246	8	543.9594	8	704.8941
9	62.7645	9	223.6993	9	384.6340	9	545.5687	9	706.5034
40	64.3739	140	225.3086	240	386.2433	340	547.1781	440	708.1128
1	65.9832	1	226.9180	1	387.8527	1	548.7874	1	709.7221
2	67.5926	2	228.5273	2	389.4620	2	550.3967	2	711.3315
3	69.2019	3	230.1366	3	391.0714	3	552.0061	3	712.9408
4	70.8113	4	231.7460	4	392.6807	4	553.6154	4	714.5502
5	72.4206	5	233.3553	5	394.2901	5	555.2248	5	716.1595
6	74.0300	6	234.9647	6	395.8994	6	556.8341	6	717.7689
7	75.6393	7	236.5740	7	397.5088	7	558.4435	7	719.3782
8	77.2487	8	238.1834	8	399.1181	8	560.0528	8	720.9876
9	78.8580	9	239.7927	9	400.7275	9	561.6622	9	722.5969

	50		150		250		350		450
50	80.4674	150	241.4021	250	402.3368	350	563.2715	450	724.2062
1	82.0767	1	243.0114	1	403.9461	1	564.8809	1	725.8156
2	83.6861	2	244.6208	2	405.5555	2	566.4902	2	727.4249
3	85.2954	3	246.2301	3	407.1648	3	568.0996	3	729.0343
4	86.9047	4	247.8395	4	408.7742	4	569.7089	4	730.6436
5	88.5141	5	249.4488	5	410.3835	5	571.3183	5	732.2530
6	90.1234	6	251.0582	6	411.9929	6	572.9276	6	733.8623
7	91.7328	7	252.6675	7	413.6022	7	574.5370	7	735.4717
8	93.3421	8	254.2769	8	415.2116	8	576.1463	8	737.0810
9	94.9515	9	255.8862	9	416.8209	9	577.7557	9	738.6904
60	96.5608	160	257.4956	260	418.4303	360	579.3650	460	740.2997
1	98.1702	1	259.1049	1	420.0396	1	580.9743	1	741.9091
2	99.7795	2	260.7142	2	421.6490	2	582.5837	2	743.5184
3	101.3889	3	262.3236	3	423.2583	3	584.1930	3	745.1278
4	102.9982	4	263.9329	4	424.8677	4	585.8024	4	746.7371
5	104.6076	5	265.5423	5	426.4770	5	587.4117	5	748.3465
6	106.2169	6	267.1516	6	428.0864	6	589.0211	6	749.9558
7	107.8263	7	268.7610	7	429.6957	7	590.6304	7	751.5652
8	109.4356	8	270.3703	8	431.3051	8	592.2398	8	753.1745
9	111.0450	9	271.9797	9	432.9144	9	593.8491	9	754.7838
70	112.6543	170	273.5890	270	434.5237	370	595.4585	470	756.3932
1	114.2637	1	275.1984	1	436.1331	1	597.0678	1	758.0025
2	115.8730	2	276.8077	2	437.7424	2	598.6772	2	759.6119
3	117.4823	3	278.4171	3	439.3518	3	600.2865	3	761.2212
4	119.0917	4	280.0264	4	440.9611	4	601.8959	4	762.8306
5	120.7010	5	281.6358	5	442.5705	5	603.5052	5	764.4399
6	122.3104	6	283.2451	6	444.1798	6	605.1145	6	766.0493
7	123.9197	7	284.8545	7	445.7892	7	606.7239	7	767.6586
8	125.5291	8	286.4638	8	447.3985	8	608.3332	8	769.2680
9	127.1384	9	288.0732	9	449.0079	9	609.9426	9	770.8773
80	128.7478	180	289.6825	280	450.6172	380	611.5519	480	772.4867
1	130.3571	1	291.2918	1	452.2266	1	613.1613	1	774.0960
2	131.9665	2	292.9012	2	453.8359	2	614.7706	2	775.7054
3	133.5758	3	294.5105	3	455.4453	3	616.3800	3	777.3147
4	135.1852	4	296.1199	4	457.0546	4	617.9893	4	778.9241
5	136.7945	5	297.7292	5	458.6640	5	619.5987	5	780.5334
6	138.4039	6	299.3386	6	460.2733	6	621.2080	6	782.1427
7	140.0132	7	300.9479	7	461.8827	7	622.8174	7	783.7521
8	141.6226	8	302.5573	8	463.4920	8	624.4267	8	785.3614
9	143.2319	9	304.1666	9	465.1013	9	626.0361	9	786.9708
90	144.8412	190	305.7760	290	466.7107	390	627.6454	490	788.5801
1	146.4506	1	307.3853	1	468.3200	1	629.2548	1	790.1895
2	148.0599	2	308.9947	2	469.9294	2	630.8641	2	791.7988
3	149.6693	3	310.6040	3	471.5387	3	632.4735	3	793.4082
4	151.2786	4	312.2134	4	473.1481	4	634.0828	4	795.0175
5	152.8880	5	313.8227	5	474.7574	5	635.6922	5	796.6269
6	154.4973	6	315.4321	6	476.3668	6	637.3015	6	798.2362
7	156.1067	7	317.0414	7	477.9761	7	638.9108	7	799.8456
8	157.7160	8	318.6507	8	479.5855	8	640.5202	8	801.4549
9	159.3254	9	320.2601	9	481.1948	9	642.1295	9	803.0643

	550		650		750		850		950
550	885.1410	650	1,046.0757	750	1,207.0104	850	1,367.9451	950	1,528.8799
1	886.7503	1	1,047.6850	1	1,208.6198	1	1,369.5545	1	1,530.4892
2	888.3597	2	1,049.2944	2	1,210.2291	2	1,371.1638	2	1,532.0986
3	889.9690	3	1,050.9037	3	1,211.8385	3	1,372.7732	3	1,533.7079
4	891.5784	4	1,052.5131	4	1,213.4478	4	1,374.3825	4	1,535.3172
5	893.1877	5	1,054.1224	5	1,215.0572	5	1,375.9919	5	1,536.9266
6	894.7971	6	1,055.7318	6	1,216.6665	6	1,377.6012	6	1,538.5359
7	896.4064	7	1,057.3411	7	1,218.2758	7	1,379.2106	7	1,540.1453
8	898.0157	8	1,058.9505	8	1,219.8852	8	1,380.8199	8	1,541.7546
9	899.6251	9	1,060.5598	9	1,221.4945	9	1,382.4293	9	1,543.3640
560	901.2344	660	1,062.1692	760	1,223.1039	860	1,384.0386	960	1,544.9733
1	902.8438	1	1,063.7785	1	1,224.7132	1	1,385.6480	1	1,546.5827
2	904.4531	2	1,065.3879	2	1,226.3226	2	1,387.2573	2	1,548.1920
3	906.0625	3	1,066.9972	3	1,227.9319	3	1,388.8666	3	1,549.8014
4	907.6718	4	1,068.6066	4	1,229.5413	4	1,390.4760	4	1,551.4107
5	909.2812	5	1,070.2159	5	1,231.1506	5	1,392.0853	5	1,553.0201
6	910.8905	6	1,071.8252	6	1,232.7600	6	1,393.6947	6	1,554.6294
7	912.4999	7	1,073.4346	7	1,234.3693	7	1,395.3040	7	1,556.2388
8	914.1092	8	1,075.0439	8	1,235.9787	8	1,396.9134	8	1,557.8481
9	915.7186	9	1,076.6533	9	1,237.5880	9	1,398.5227	9	1,559.4575
570	917.3279	670	1,078.2626	770	1,239.1974	870	1,400.1321	970	1,561.0668
1	918.9373	1	1,079.8720	1	1,240.8067	1	1,401.7414	1	1,562.6761
2	920.5466	2	1,081.4813	2	1,242.4161	2	1,403.3508	2	1,564.2855
3	922.1560	3	1,083.0907	3	1,244.0254	3	1,404.9601	3	1,565.8948
4	923.7653	4	1,084.7000	4	1,245.6347	4	1,406.5695	4	1,567.5042
5	925.3747	5	1,086.3094	5	1,247.2441	5	1,408.1788	5	1,569.1135
6	926.9840	6	1,087.9187	6	1,248.8534	6	1,409.7882	6	1,570.7229
7	928.5933	7	1,089.5281	7	1,250.4628	7	1,411.3975	7	1,572.3322
8	930.2027	8	1,091.1374	8	1,252.0721	8	1,413.0069	8	1,573.9416
9	931.8120	9	1,092.7468	9	1,253.6815	9	1,414.6162	9	1,575.5509
580	933.4214	680	1,094.3561	780	1,255.2908	880	1,416.2256	980	1,577.1603
1	935.0307	1	1,095.9655	1	1,256.9002	1	1,417.8349	1	1,578.7696
2	936.6401	2	1,097.5748	2	1,258.5095	2	1,419.4442	2	1,580.3790
3	938.2494	3	1,099.1842	3	1,260.1189	3	1,421.0536	3	1,581.9883
4	939.8588	4	1,100.7935	4	1,261.7282	4	1,422.6629	4	1,583.5977
5	941.4681	5	1,102.4028	5	1,263.3376	5	1,424.2723	5	1,585.2070
6	943.0775	6	1,104.0122	6	1,264.9469	6	1,425.8816	6	1,586.8164
7	944.6868	7	1,105.6215	7	1,266.5563	7	1,427.4910	7	1,588.4257
8	946.2962	8	1,107.2309	8	1,268.1656	8	1,429.1003	8	1,590.0351
9	947.9055	9	1,108.8402	9	1,269.7750	9	1,430.7097	9	1,591.6444
590	949.5149	690	1,110.4496	790	1,271.3843	890	1,432.3190	990	1,593.2537
1	951.1242	1	1,112.0589	1	1,272.9936	1	1,433.9284	1	1,594.8631
2	952.7336	2	1,113.6683	2	1,274.6030	2	1,435.5377	2	1,596.4724
3	954.3429	3	1,115.2776	3	1,276.2123	3	1,437.1471	3	1,598.0818
4	955.9522	4	1,116.8870	4	1,277.8217	4	1,438.7564	4	1,599.6911
5	957.5616	5	1,118.4963	5	1,279.4310	5	1,440.3658	5	1,601.3005
6	959.1709	6	1,120.1057	6	1,281.0404	6	1,441.9751	6	1,602.9098
7	960.7803	7	1,121.7150	7	1,282.6497	7	1,443.5845	7	1,604.5192
8	962.3896	8	1,123.3244	8	1,284.2591	8	1,445.1938	8	1,606.1285
9	963.9990	9	1,124.9337	9	1,285.8684	9	1,446.8031	9	1,607.7379

LENGTH—KILOMETERS TO MILES

[Reduction factor: 1 kilometer = 0.621369495 mile]

Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles
0		**100**	62.13699	**200**	124.27399	**300**	186.41098	**400**	248.54798	**500**	310.68497	**600**	372.82197	**700**	434.95896	**800**	497.09596	**900**	559.23295
1	0.62137	1	62.75836	1	124.89536	1	187.03235	1	249.16935	1	311.30634	1	373.44334	1	435.58033	1	497.71733	1	559.85432
2	1.24274	2	63.37973	2	125.51673	2	187.65372	2	249.79072	2	311.92771	2	374.06471	2	436.20170	2	498.33870	2	560.47569
3	1.86411	3	64.00110	3	126.13810	3	188.27509	3	250.41209	3	312.54908	3	374.68608	3	436.82307	3	498.96007	3	561.09706
4	2.48548	4	64.62247	4	126.75947	4	188.89646	4	251.03346	4	313.17045	4	375.30745	4	437.44444	4	499.58144	4	561.71843
5	3.10685	5	65.24384	5	127.38084	5	189.51783	5	251.65483	5	313.79182	5	375.92882	5	438.06581	5	500.20281	5	562.33980
6	3.72822	6	65.86521	6	128.00221	6	190.13920	6	252.27620	6	314.41319	6	376.55019	6	438.68718	6	500.82418	6	562.96117
7	4.34959	7	66.48658	7	128.62358	7	190.76057	7	252.89757	7	315.03456	7	377.17156	7	439.30855	7	501.44555	7	563.58254
8	4.97096	8	67.10795	8	129.24495	8	191.38194	8	253.51894	8	315.65593	8	377.79293	8	439.92992	8	502.06692	8	564.20391
9	5.59233	9	67.72932	9	129.86632	9	192.00331	9	254.14031	9	316.27730	9	378.41430	9	440.55129	9	502.68829	9	564.82528
10	6.21370	**110**	68.35069	**210**	130.48769	**310**	192.62468	**410**	254.76168	**510**	316.89867	**610**	379.03567	**710**	441.17266	**810**	503.30966	**910**	565.44665
1	6.83507	1	68.97206	1	131.10906	1	193.24605	1	255.38305	1	317.52004	1	379.65704	1	441.79403	1	503.93103	1	566.06802
2	7.45644	2	69.59343	2	131.73043	2	193.86742	2	256.00442	2	318.14141	2	380.27841	2	442.41540	2	504.55240	2	566.68939
3	8.07781	3	70.21480	3	132.35180	3	194.48879	3	256.62579	3	318.76278	3	380.89978	3	443.03677	3	505.17377	3	567.31076
4	8.69918	4	70.83617	4	132.97317	4	195.11016	4	257.24716	4	319.38415	4	381.52115	4	443.65814	4	505.79514	4	567.93213
5	9.32055	5	71.45754	5	133.59454	5	195.73153	5	257.86853	5	320.00552	5	382.14252	5	444.27951	5	506.41651	5	568.55350
6	9.94192	6	72.07891	6	134.21591	6	196.35290	6	258.48990	6	320.62689	6	382.76389	6	444.90088	6	507.03788	6	569.17487
7	10.56329	7	72.70028	7	134.83728	7	196.97427	7	259.11127	7	321.24826	7	383.38526	7	445.52225	7	507.65925	7	569.79624
8	11.18466	8	73.32165	8	135.45865	8	197.59564	8	259.73264	8	321.86963	8	384.00663	8	446.14362	8	508.28062	8	570.41761
9	11.80603	9	73.94302	9	136.08002	9	198.21701	9	260.35401	9	322.49100	9	384.62800	9	446.76499	9	508.90199	9	571.03898
20	12.42740	**120**	74.56439	**220**	136.70139	**320**	198.83838	**420**	260.97538	**520**	323.11237	**620**	385.24937	**720**	447.38636	**820**	509.52336	**920**	571.66035
1	13.04877	1	75.18576	1	137.32276	1	199.45975	1	261.59675	1	323.73374	1	385.87074	1	448.00773	1	510.14473	1	572.28172
2	13.67014	2	75.80713	2	137.94413	2	200.08112	2	262.21812	2	324.35511	2	386.49211	2	448.62910	2	510.76610	2	572.90309
3	14.29151	3	76.42850	3	138.56550	3	200.70249	3	262.83949	3	324.97648	3	387.11348	3	449.25047	3	511.38747	3	573.52446
4	14.91288	4	77.04987	4	139.18687	4	201.32386	4	263.46086	4	325.59785	4	387.73485	4	449.87184	4	512.00884	4	574.14583
5	15.53425	5	77.67124	5	139.80824	5	201.94523	5	264.08223	5	326.21922	5	388.35622	5	450.49321	5	512.63021	5	574.76720
6	16.15562	6	78.29261	6	140.42961	6	202.56660	6	264.70360	6	326.84059	6	388.97759	6	451.11458	6	513.25158	6	575.38857
7	16.77699	7	78.91398	7	141.05098	7	203.18797	7	265.32497	7	327.46196	7	389.59896	7	451.73595	7	513.87295	7	576.00994
8	17.39836	8	79.53535	8	141.67235	8	203.80934	8	265.94634	8	328.08333	8	390.22033	8	452.35732	8	514.49432	8	576.63131
9	18.01973	9	80.15672	9	142.29372	9	204.43071	9	266.56771	9	328.70470	9	390.84170	9	452.97869	9	515.11569	9	577.25268
30	18.64110	**130**	80.77809	**230**	142.91509	**330**	205.05208	**430**	267.18908	**530**	329.32607	**630**	391.46307	**730**	453.60006	**830**	515.73706	**930**	577.87405
1	19.26247	1	81.39946	1	143.53646	1	205.67345	1	267.81045	1	329.94744	1	392.08444	1	454.22143	1	516.35843	1	578.49542
2	19.88384	2	82.02083	2	144.15783	2	206.29482	2	268.43182	2	330.56881	2	392.70581	2	454.84280	2	516.97980	2	579.11679
3	20.50521	3	82.64220	3	144.77920	3	206.91619	3	269.05319	3	331.19018	3	393.32718	3	455.46417	3	517.60117	3	579.73816
4	21.12658	4	83.26357	4	145.40057	4	207.53756	4	269.67456	4	331.81155	4	393.94855	4	456.08554	4	518.22254	4	580.35953
5	21.74795	5	83.88494	5	146.02194	5	208.15893	5	270.29593	5	332.43292	5	394.56992	5	456.70691	5	518.84391	5	580.98090
6	22.36932	6	84.50631	6	146.64331	6	208.78030	6	270.91730	6	333.05429	6	395.19129	6	457.32828	6	519.46528	6	581.60227
7	22.99069	7	85.12768	7	147.26468	7	209.40167	7	271.53867	7	333.67566	7	395.81266	7	457.94965	7	520.08665	7	582.22364
8	23.61206	8	85.74905	8	147.88605	8	210.02304	8	272.16004	8	334.29703	8	396.43403	8	458.57102	8	520.70802	8	582.84501
9	24.23343	9	86.37042	9	148.50742	9	210.64441	9	272.78141	9	334.91840	9	397.05540	9	459.19239	9	521.32939	9	583.46638
40	24.85480	**140**	86.99179	**240**	149.12879	**340**	211.26578	**440**	273.40278	**540**	335.53977	**640**	397.67677	**740**	459.81376	**840**	521.95076	**940**	584.08775
1	25.47617	1	87.61316	1	149.75016	1	211.88715	1	274.02415	1	336.16114	1	398.29814	1	460.43513	1	522.57213	1	584.70912
2	26.09754	2	88.23453	2	150.37153	2	212.50852	2	274.64552	2	336.78251	2	398.91951	2	461.05650	2	523.19350	2	585.33049
3	26.71891	3	88.85590	3	150.99290	3	213.12989	3	275.26689	3	337.40388	3	399.54088	3	461.67787	3	523.81487	3	585.95186
4	27.34028	4	89.47727	4	151.61427	4	213.75126	4	275.88826	4	338.02525	4	400.16225	4	462.29924	4	524.43624	4	586.57323
5	27.96165	5	90.09864	5	152.23564	5	214.37263	5	276.50963	5	338.64662	5	400.78362	5	462.92061	5	525.05761	5	587.19460
6	28.58302	6	90.72001	6	152.85701	6	214.99400	6	277.13100	6	339.26799	6	401.40499	6	463.54198	6	525.67898	6	587.81597
7	29.20439	7	91.34138	7	153.47838	7	215.61537	7	277.75237	7	339.88936	7	402.02636	7	464.16335	7	526.30035	7	588.43734
8	29.82576	8	91.96275	8	154.09975	8	216.23674	8	278.37374	8	340.51073	8	402.64773	8	464.78472	8	526.92172	8	589.05871
9	30.44713	9	92.58412	9	154.72112	9	216.85811	9	278.99511	9	341.13210	9	403.26910	9	465.40609	9	527.54309	9	589.68008

	50	150	250	350	450	550	650	750	850	950
0	31.06850	93.20549	155.34249	217.47948	279.61648	341.75347	403.89047	466.02746	528.16446	590.30145
1	31.68987	93.82686	155.96386	218.10085	280.23785	342.37484	404.51184	466.64883	528.78583	590.92282
2	32.31124	94.44823	156.58523	218.72222	280.85922	342.99621	405.13321	467.27020	529.40720	591.54419
3	32.93261	95.06960	157.20660	219.34359	281.48059	343.61758	405.75458	467.89157	530.02857	592.16556
4	33.55398	95.69097	157.82797	219.96496	282.10196	344.23895	406.37595	468.51294	530.64994	592.78693
5	34.17535	96.31234	158.44934	220.58633	282.72333	344.86032	406.99732	469.13431	531.27131	593.40830
6	34.79672	96.93371	159.07071	221.20770	283.34470	345.48169	407.61869	469.75568	531.89268	594.02967
7	35.41809	97.55508	159.69208	221.82907	283.96607	346.10306	408.24006	470.37705	532.51405	594.65104
8	36.03946	98.17645	160.31345	222.45044	284.58744	346.72443	408.86143	470.99842	533.13542	595.27241
9	36.66083	98.79782	160.93482	223.07181	285.20881	347.34580	409.48280	471.61979	533.75679	595.89378

	60	160	260	360	460	560	660	760	860	960
0	37.28220	99.41919	161.55619	223.69318	285.83018	347.96717	410.10417	472.24116	534.37816	596.51515
1	37.90357	100.04056	162.17756	224.31455	286.45155	348.58854	410.72554	472.86253	534.99953	597.13652
2	38.52494	100.66193	162.79893	224.93592	287.07292	349.20991	411.34691	473.48390	535.62090	597.75789
3	39.14631	101.28330	163.42030	225.55729	287.69429	349.83128	411.96828	474.10527	536.24227	598.37926
4	39.76768	101.90467	164.04167	226.17866	288.31566	350.45265	412.58965	474.72664	536.86364	599.00063
5	40.38905	102.52604	164.66304	226.80003	288.93703	351.07402	413.21102	475.34801	537.48501	599.62200
6	41.01042	103.14741	165.28441	227.42140	289.55840	351.69539	413.83239	475.96938	538.10638	600.24337
7	41.63179	103.76878	165.90578	228.04277	290.17977	352.31676	414.45376	476.59075	538.72775	600.86474
8	42.25316	104.39015	166.52715	228.66414	290.80114	352.93813	415.07513	477.21212	539.34912	601.48611
9	42.87453	105.01152	167.14852	229.28551	291.42251	353.55950	415.69650	477.83349	539.97049	602.10748

	70	170	270	370	470	570	670	770	870	970
0	43.49590	105.63289	167.76989	229.90688	292.04388	354.18087	416.31787	478.45486	540.59186	602.72885
1	44.11727	106.25426	168.39126	230.52825	292.66525	354.80224	416.93924	479.07623	541.21323	603.35022
2	44.73864	106.87563	169.01263	231.14962	293.28662	355.42361	417.56061	479.69760	541.83460	603.97159
3	45.36001	107.49700	169.63400	231.77099	293.90799	356.04498	418.18198	480.31897	542.45597	604.59296
4	45.98138	108.11837	170.25537	232.39236	294.52936	356.66635	418.80335	480.94034	543.07734	605.21433
5	46.60275	108.73974	170.87674	233.01373	295.15073	357.28772	419.42472	481.56171	543.69871	605.83570
6	47.22412	109.36111	171.49811	233.63510	295.77210	357.90909	420.04609	482.18308	544.32008	606.45707
7	47.84549	109.98248	172.11948	234.25647	296.39347	358.53046	420.66746	482.80445	544.94145	607.07844
8	48.46686	110.60385	172.74085	234.87784	297.01484	359.15183	421.28883	483.42582	545.56282	607.69981
9	49.08823	111.22522	173.36222	235.49921	297.63621	359.77320	421.91020	484.04719	546.18419	608.32118

	80	180	280	380	480	580	680	780	880	980
0	49.70960	111.84659	173.98359	236.12058	298.25758	360.39457	422.53157	484.66856	546.80556	608.94255
1	50.33097	112.46796	174.60496	236.74195	298.87895	361.01594	423.15294	485.28993	547.42693	609.56392
2	50.95234	113.08933	175.22633	237.36332	299.50032	361.63731	423.77431	485.91130	548.04830	610.18529
3	51.57371	113.71070	175.84770	237.98469	300.12169	362.25868	424.39568	486.53267	548.66967	610.80666
4	52.19508	114.33207	176.46907	238.60606	300.74306	362.88005	425.01705	487.15404	549.29104	611.42803
5	52.81645	114.95344	177.09044	239.22743	301.36443	363.50142	425.63842	487.77541	549.91241	612.04940
6	53.43782	115.57481	177.71181	239.84880	301.98580	364.12279	426.25979	488.39678	550.53378	612.67077
7	54.05919	116.19618	178.33318	240.47017	302.60717	364.74416	426.88116	489.01815	551.15515	613.29214
8	54.68056	116.81755	178.95455	241.09154	303.22854	365.36553	427.50253	489.63952	551.77652	613.91351
9	55.30193	117.43892	179.57592	241.71291	303.84991	365.98690	428.12390	490.26089	552.39789	614.53488

	90	190	290	390	490	590	690	790	890	990
0	55.92330	118.06029	180.19729	242.33428	304.47128	366.60827	428.74527	490.88226	553.01926	615.15625
1	56.54467	118.68166	180.81866	242.95565	305.09265	367.22964	429.36664	491.50363	553.64062	615.77762
2	57.16604	119.30303	181.44003	243.57702	305.71402	367.85101	429.98801	492.12500	554.26199	616.39899
3	57.78741	119.92440	182.06140	244.19839	306.33539	368.47238	430.60937	492.74637	554.88336	617.02036
4	58.40878	120.54577	182.68277	244.81976	306.95676	369.09375	431.23074	493.36774	555.50473	617.64173
5	59.03015	121.16714	183.30414	245.44113	307.57812	369.71512	431.85211	493.98911	556.12610	618.26310
6	59.65152	121.78851	183.92551	246.06250	308.19949	370.33649	432.47348	494.61048	556.74747	618.88447
7	60.27289	122.40988	184.54687	246.68387	308.82086	370.95786	433.09485	495.23185	557.36884	619.50584
8	60.89426	123.03125	185.16824	247.30524	309.44223	371.57923	433.71622	495.85322	557.99021	620.12721
9	61.51562	123.65262	185.78961	247.92661	310.06360	372.20060	434.33759	496.47459	558.61158	620.74858

LENGTH—NAUTICAL MILES TO KILOMETERS

[Reduction factor: 1 nautical mile=1.8532487 kilometers (based on 1 nautical mile=6080.20 ft.)]

Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers
0		100	185.325	200	370.650	300	555.975	400	741.299	500	926.624	600	1,111.949	700	1,297.274	800	1,482.599	900	1,667.924
1	1.8532	1	187.178	1	372.503	1	557.828	1	743.153	1	928.478	1	1,113.802	1	1,299.127	1	1,484.452	1	1,669.777
2	3.7065	2	189.031	2	374.356	2	559.681	2	745.006	2	930.331	2	1,115.656	2	1,300.981	2	1,486.305	2	1,671.630
3	5.5597	3	190.885	3	376.209	3	561.534	3	746.859	3	932.184	3	1,117.509	3	1,302.834	3	1,488.159	3	1,673.484
4	7.4130	4	192.738	4	378.063	4	563.388	4	748.712	4	934.037	4	1,119.362	4	1,304.687	4	1,490.012	4	1,675.337
5	9.2662	5	194.591	5	379.916	5	565.241	5	750.566	5	935.891	5	1,121.215	5	1,306.540	5	1,491.865	5	1,677.190
6	11.1195	6	196.444	6	381.769	6	567.094	6	752.419	6	937.744	6	1,123.069	6	1,308.394	6	1,493.718	6	1,679.043
7	12.9727	7	198.298	7	383.622	7	568.947	7	754.272	7	939.597	7	1,124.922	7	1,310.247	7	1,495.572	7	1,680.897
8	14.8260	8	200.151	8	385.476	8	570.801	8	756.125	8	941.450	8	1,126.775	8	1,312.100	8	1,497.425	8	1,682.750
9	16.6792	9	202.004	9	387.329	9	572.654	9	757.979	9	943.304	9	1,128.628	9	1,313.953	9	1,499.278	9	1,684.603
10	18.5325	110	203.857	210	389.182	310	574.507	410	759.832	510	945.157	610	1,130.482	710	1,315.807	810	1,501.131	910	1,686.456
11	20.3857	11	205.711	11	391.035	11	576.360	11	761.685	11	947.010	11	1,132.335	11	1,317.660	11	1,502.985	11	1,688.310
12	22.2390	12	207.564	12	392.889	12	578.214	12	763.538	12	948.863	12	1,134.188	12	1,319.513	12	1,504.838	12	1,690.163
13	24.0922	13	209.417	13	394.742	13	580.067	13	765.392	13	950.717	13	1,136.041	13	1,321.366	13	1,506.691	13	1,692.016
14	25.9455	14	211.270	14	396.595	14	581.920	14	767.245	14	952.570	14	1,137.895	14	1,323.220	14	1,508.544	14	1,693.869
15	27.7987	15	213.124	15	398.448	15	583.773	15	769.098	15	954.423	15	1,139.748	15	1,325.073	15	1,510.398	15	1,695.723
16	29.6520	16	214.977	16	400.302	16	585.627	16	770.951	16	956.276	16	1,141.601	16	1,326.926	16	1,512.251	16	1,697.576
17	31.5052	17	216.830	17	402.155	17	587.480	17	772.805	17	958.130	17	1,143.454	17	1,328.779	17	1,514.104	17	1,699.429
18	33.3585	18	218.683	18	404.008	18	589.333	18	774.658	18	959.983	18	1,145.308	18	1,330.633	18	1,515.957	18	1,701.282
19	35.2117	19	220.537	19	405.861	19	591.186	19	776.511	19	961.836	19	1,147.161	19	1,332.486	19	1,517.811	19	1,703.136
20	37.0650	120	222.390	220	407.715	320	593.040	420	778.364	520	963.689	620	1,149.014	720	1,334.339	820	1,519.664	920	1,704.989
21	38.9182	21	224.243	21	409.568	21	594.893	21	780.218	21	965.543	21	1,150.867	21	1,336.192	21	1,521.517	21	1,706.842
22	40.7715	22	226.096	22	411.421	22	596.746	22	782.071	22	967.396	22	1,152.721	22	1,338.046	22	1,523.370	22	1,708.695
23	42.6247	23	227.950	23	413.274	23	598.599	23	783.924	23	969.249	23	1,154.574	23	1,339.899	23	1,525.224	23	1,710.549
24	44.4780	24	229.803	24	415.128	24	600.453	24	785.777	24	971.102	24	1,156.427	24	1,341.752	24	1,527.077	24	1,712.402
25	46.3312	25	231.656	25	416.981	25	602.306	25	787.631	25	972.956	25	1,158.280	25	1,343.605	25	1,528.930	25	1,714.255
26	48.1845	26	233.509	26	418.834	26	604.159	26	789.484	26	974.809	26	1,160.134	26	1,345.459	26	1,530.783	26	1,716.108
27	50.0377	27	235.363	27	420.687	27	606.012	27	791.337	27	976.662	27	1,161.987	27	1,347.312	27	1,532.637	27	1,717.962
28	51.8910	28	237.216	28	422.541	28	607.866	28	793.190	28	978.515	28	1,163.840	28	1,349.165	28	1,534.490	28	1,719.815
29	53.7442	29	239.069	29	424.394	29	609.719	29	795.044	29	980.369	29	1,165.693	29	1,351.018	29	1,536.343	29	1,721.668
30	55.5975	130	240.922	230	426.247	330	611.572	430	796.897	530	982.222	630	1,167.547	730	1,352.872	830	1,538.196	930	1,723.521
31	57.4507	31	242.776	31	428.100	31	613.425	31	798.750	31	984.075	31	1,169.400	31	1,354.725	31	1,540.050	31	1,725.375
32	59.3040	32	244.629	32	429.954	32	615.279	32	800.603	32	985.928	32	1,171.253	32	1,356.578	32	1,541.903	32	1,727.228
33	61.1572	33	246.482	33	431.807	33	617.132	33	802.457	33	987.782	33	1,173.106	33	1,358.431	33	1,543.756	33	1,729.081
34	63.0105	34	248.335	34	433.660	34	618.985	34	804.310	34	989.635	34	1,174.960	34	1,360.285	34	1,545.609	34	1,730.934
35	64.8637	35	250.189	35	435.513	35	620.838	35	806.163	35	991.488	35	1,176.813	35	1,362.138	35	1,547.463	35	1,732.788
36	66.7170	36	252.042	36	437.367	36	622.692	36	808.016	36	993.341	36	1,178.666	36	1,363.991	36	1,549.316	36	1,734.641
37	68.5702	37	253.895	37	439.220	37	624.545	37	809.870	37	995.195	37	1,180.519	37	1,365.844	37	1,551.169	37	1,736.494
38	70.4235	38	255.748	38	441.073	38	626.398	38	811.723	38	997.048	38	1,182.373	38	1,367.698	38	1,553.022	38	1,738.347
39	72.2767	39	257.602	39	442.926	39	628.251	39	813.576	39	998.901	39	1,184.226	39	1,369.551	39	1,554.876	39	1,740.201
40	74.1299	140	259.455	240	444.780	340	630.105	440	815.429	540	1,000.754	640	1,186.079	740	1,371.404	840	1,556.729	940	1,742.054
41	75.9832	41	261.308	41	446.633	41	631.958	41	817.283	41	1,002.608	41	1,187.932	41	1,373.257	41	1,558.582	41	1,743.907
42	77.8364	42	263.161	42	448.486	42	633.811	42	819.136	42	1,004.461	42	1,189.786	42	1,375.111	42	1,560.435	42	1,745.760
43	79.6897	43	265.015	43	450.339	43	635.664	43	820.989	43	1,006.314	43	1,191.639	43	1,376.964	43	1,562.289	43	1,747.614
44	81.5429	44	266.868	44	452.193	44	637.518	44	822.842	44	1,008.167	44	1,193.492	44	1,378.817	44	1,564.142	44	1,749.467
45	83.3962	45	268.721	45	454.046	45	639.371	45	824.696	45	1,010.021	45	1,195.345	45	1,380.670	45	1,565.995	45	1,751.320
46	85.2494	46	270.574	46	455.899	46	641.224	46	826.549	46	1,011.874	46	1,197.199	46	1,382.524	46	1,567.848	46	1,753.173
47	87.1027	47	272.428	47	457.752	47	643.077	47	828.402	47	1,013.727	47	1,199.052	47	1,384.377	47	1,569.702	47	1,755.027
48	88.9559	48	274.281	48	459.606	48	644.931	48	830.255	48	1,015.580	48	1,200.905	48	1,386.230	48	1,571.555	48	1,756.880
49	90.8092	49	276.134	49	461.459	49	646.784	49	832.109	49	1,017.434	49	1,202.758	49	1,388.083	49	1,573.408	49	1,758.733

No.	950	No.	850	No.	750	No.	650	No.	550	No.	450	No.	350	No.	250	No.	150	No.	50
950	1,760.586	850	1,575.261	750	1,389.937	650	1,204.612	550	1,019.287	450	833.962	350	648.637	250	463.312	150	277.987	50	92.6624
1	1,762.440	1	1,577.115	1	1,391.790	1	1,206.465	1	1,021.140	1	835.815	1	650.490	1	465.165	1	279.841	1	94.5157
2	1,764.293	2	1,578.968	2	1,393.643	2	1,208.318	2	1,022.993	2	837.668	2	652.344	2	467.019	2	281.694	2	96.3689
3	1,766.146	3	1,580.821	3	1,395.496	3	1,210.171	3	1,024.847	3	839.522	3	654.197	3	468.872	3	283.547	3	98.2222
4	1,767.999	4	1,582.674	4	1,397.350	4	1,212.025	4	1,026.700	4	841.375	4	656.050	4	470.725	4	285.400	4	100.0754
5	1,769.853	5	1,584.528	5	1,399.203	5	1,213.878	5	1,028.553	5	843.228	5	657.903	5	472.578	5	287.254	5	101.9287
6	1,771.706	6	1,586.381	6	1,401.056	6	1,215.731	6	1,030.406	6	845.081	6	659.757	6	474.432	6	289.107	6	103.7819
7	1,773.559	7	1,588.234	7	1,402.909	7	1,217.584	7	1,032.260	7	846.935	7	661.610	7	476.285	7	290.960	7	105.6352
8	1,775.412	8	1,590.087	8	1,404.763	8	1,219.438	8	1,034.113	8	848.788	8	663.463	8	478.138	8	292.813	8	107.4884
9	1,777.266	9	1,591.941	9	1,406.616	9	1,221.291	9	1,035.966	9	850.641	9	665.316	9	479.991	9	294.667	9	109.3417
960	1,779.119	860	1,593.794	760	1,408.469	660	1,223.144	560	1,037.819	460	852.494	360	667.170	260	481.845	160	296.520	60	111.1949
1	1,780.972	1	1,595.647	1	1,410.322	1	1,224.997	1	1,039.673	1	854.348	1	669.023	1	483.698	1	298.373	1	113.0482
2	1,782.825	2	1,597.500	2	1,412.176	2	1,226.851	2	1,041.526	2	856.201	2	670.876	2	485.551	2	300.226	2	114.9014
3	1,784.678	3	1,599.354	3	1,414.029	3	1,228.704	3	1,043.379	3	858.054	3	672.729	3	487.404	3	302.080	3	116.7547
4	1,786.532	4	1,601.207	4	1,415.882	4	1,230.557	4	1,045.232	4	859.907	4	674.583	4	489.258	4	303.933	4	118.6079
5	1,788.385	5	1,603.060	5	1,417.735	5	1,232.410	5	1,047.086	5	861.761	5	676.436	5	491.111	5	305.786	5	120.4612
6	1,790.238	6	1,604.913	6	1,419.589	6	1,234.264	6	1,048.939	6	863.614	6	678.289	6	492.964	6	307.639	6	122.3144
7	1,792.091	7	1,606.767	7	1,421.442	7	1,236.117	7	1,050.792	7	865.467	7	680.142	7	494.817	7	309.493	7	124.1677
8	1,793.945	8	1,608.620	8	1,423.295	8	1,237.970	8	1,052.645	8	867.320	8	681.996	8	496.671	8	311.346	8	126.0209
9	1,795.798	9	1,610.473	9	1,425.148	9	1,239.823	9	1,054.499	9	869.174	9	683.849	9	498.524	9	313.199	9	127.8742
970	1,797.651	870	1,612.326	770	1,427.001	670	1,241.677	570	1,056.352	470	871.027	370	685.702	270	500.377	170	315.052	70	129.7274
1	1,799.504	1	1,614.180	1	1,428.855	1	1,243.530	1	1,058.205	1	872.880	1	687.555	1	502.230	1	316.906	1	131.5807
2	1,801.358	2	1,616.033	2	1,430.708	2	1,245.383	2	1,060.058	2	874.733	2	689.409	2	504.084	2	318.759	2	133.4339
3	1,803.211	3	1,617.886	3	1,432.561	3	1,247.236	3	1,061.912	3	876.587	3	691.262	3	505.937	3	320.612	3	135.2872
4	1,805.064	4	1,619.739	4	1,434.414	4	1,249.090	4	1,063.765	4	878.440	4	693.115	4	507.790	4	322.465	4	137.1404
5	1,806.917	5	1,621.593	5	1,436.268	5	1,250.943	5	1,065.618	5	880.293	5	694.968	5	509.643	5	324.319	5	138.9937
6	1,808.771	6	1,623.446	6	1,438.121	6	1,252.796	6	1,067.471	6	882.146	6	696.822	6	511.497	6	326.172	6	140.8469
7	1,810.624	7	1,625.299	7	1,439.974	7	1,254.649	7	1,069.324	7	884.000	7	698.675	7	513.350	7	328.025	7	142.7001
8	1,812.477	8	1,627.152	8	1,441.827	8	1,256.503	8	1,071.178	8	885.853	8	700.528	8	515.203	8	329.878	8	144.5534
9	1,814.330	9	1,629.006	9	1,443.681	9	1,258.356	9	1,073.031	9	887.706	9	702.381	9	517.056	9	331.732	9	146.4066
980	1,816.184	880	1,630.859	780	1,445.534	680	1,260.209	580	1,074.884	480	889.559	380	704.235	280	518.910	180	333.585	80	148.2599
1	1,818.037	1	1,632.712	1	1,447.387	1	1,262.062	1	1,076.737	1	891.413	1	706.088	1	520.763	1	335.438	1	150.1131
2	1,819.890	2	1,634.565	2	1,449.240	2	1,263.916	2	1,078.591	2	893.266	2	707.941	2	522.616	2	337.291	2	151.9664
3	1,821.743	3	1,636.419	3	1,451.094	3	1,265.769	3	1,080.444	3	895.119	3	709.794	3	524.469	3	339.145	3	153.8196
4	1,823.597	4	1,638.272	4	1,452.947	4	1,267.622	4	1,082.297	4	896.972	4	711.648	4	526.323	4	340.998	4	155.6729
5	1,825.450	5	1,640.125	5	1,454.800	5	1,269.475	5	1,084.150	5	898.826	5	713.501	5	528.176	5	342.851	5	157.5261
6	1,827.303	6	1,641.978	6	1,456.653	6	1,271.329	6	1,086.004	6	900.679	6	715.354	6	530.029	6	344.704	6	159.3794
7	1,829.156	7	1,643.832	7	1,458.507	7	1,273.182	7	1,087.857	7	902.532	7	717.207	7	531.882	7	346.558	7	161.2326
8	1,831.010	8	1,645.685	8	1,460.360	8	1,275.035	8	1,089.710	8	904.385	8	719.060	8	533.736	8	348.411	8	163.0859
9	1,832.863	9	1,647.538	9	1,462.213	9	1,276.888	9	1,091.563	9	906.239	9	720.914	9	535.589	9	350.264	9	164.9391
990	1,834.716	890	1,649.391	790	1,464.066	690	1,278.742	590	1,093.417	490	908.092	390	722.767	290	537.442	190	352.117	90	166.7924
1	1,836.569	1	1,651.245	1	1,465.920	1	1,280.595	1	1,095.270	1	909.945	1	724.620	1	539.295	1	353.971	1	168.6456
2	1,838.423	2	1,653.098	2	1,467.773	2	1,282.448	2	1,097.123	2	911.798	2	726.473	2	541.149	2	355.824	2	170.4989
3	1,840.276	3	1,654.951	3	1,469.626	3	1,284.301	3	1,098.976	3	913.652	3	728.327	3	543.002	3	357.677	3	172.3521
4	1,842.129	4	1,656.804	4	1,471.479	4	1,286.155	4	1,100.830	4	915.505	4	730.180	4	544.855	4	359.530	4	174.2054
5	1,843.982	5	1,658.658	5	1,473.333	5	1,288.008	5	1,102.683	5	917.358	5	732.033	5	546.708	5	361.383	5	176.0586
6	1,845.836	6	1,660.511	6	1,475.186	6	1,289.861	6	1,104.536	6	919.211	6	733.886	6	548.562	6	363.237	6	177.9119
7	1,847.689	7	1,662.364	7	1,477.039	7	1,291.714	7	1,106.389	7	921.065	7	735.740	7	550.415	7	365.090	7	179.7651
8	1,849.542	8	1,664.217	8	1,478.892	8	1,293.568	8	1,108.243	8	922.918	8	737.593	8	552.268	8	366.943	8	181.6184
9	1,851.395	9	1,666.071	9	1,480.746	9	1,295.421	9	1,110.096	9	924.771	9	739.446	9	554.121	9	368.796	9	183.4716

LENGTH—KILOMETERS TO NAUTICAL MILES

[Reduction factor: 1 kilometer=0.5395930 nautical mile (based on 1 nautical mile=6080.20 feet)]

Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles	Kilometers	Nautical miles
0		100	53.9593	200	107.9186	300	161.8779	400	215.8372	500	269.7965	600	323.7558	700	377.7151	800	431.6744	900	485.6337
1	0.53959	101	54.4989	201	108.4582	301	162.4175	401	216.3768	501	270.3361	601	324.2954	701	378.2547	801	432.2140	901	486.1733
2	1.07919	102	55.0385	202	108.9978	302	162.9571	402	216.9164	502	270.8757	602	324.8350	702	378.7943	802	432.7536	902	486.7129
3	1.61878	103	55.5781	203	109.5374	303	163.4967	403	217.4560	503	271.4153	603	325.3746	703	379.3339	803	433.2932	903	487.2525
4	2.15837	104	56.1177	204	110.0770	304	164.0363	404	217.9956	504	271.9549	604	325.9142	704	379.8735	804	433.8328	904	487.7921
5	2.69796	105	56.6573	205	110.6166	305	164.5759	405	218.5352	505	272.4945	605	326.4538	705	380.4131	805	434.3724	905	488.3317
6	3.23756	106	57.1969	206	111.1562	306	165.1155	406	219.0748	506	273.0341	606	326.9934	706	380.9527	806	434.9120	906	488.8713
7	3.77715	107	57.7365	207	111.6958	307	165.6551	407	219.6144	507	273.5737	607	327.5330	707	381.4923	807	435.4516	907	489.4109
8	4.31674	108	58.2760	208	112.2353	308	166.1946	408	220.1539	508	274.1132	608	328.0725	708	382.0318	808	435.9911	908	489.9504
9	4.85634	109	58.8156	209	112.7749	309	166.7342	409	220.6935	509	274.6528	609	328.6121	709	382.5714	809	436.5307	909	490.4900
10	5.39593	110	59.3552	210	113.3145	310	167.2738	410	221.2331	510	275.1924	610	329.1517	710	383.1110	810	437.0703	910	491.0296
11	5.93552	111	59.8948	211	113.8541	311	167.8134	411	221.7727	511	275.7320	611	329.6913	711	383.6506	811	437.6099	911	491.5692
12	6.47512	112	60.4344	212	114.3937	312	168.3530	412	222.3123	512	276.2716	612	330.2309	712	384.1902	812	438.1495	912	492.1088
13	7.01471	113	60.9740	213	114.9333	313	168.8926	413	222.8519	513	276.8112	613	330.7705	713	384.7298	813	438.6891	913	492.6484
14	7.55430	114	61.5136	214	115.4729	314	169.4322	414	223.3915	514	277.3508	614	331.3101	714	385.2694	814	439.2287	914	493.1880
15	8.09390	115	62.0532	215	116.0125	315	169.9718	415	223.9311	515	277.8904	615	331.8497	715	385.8090	815	439.7683	915	493.7276
16	8.63349	116	62.5928	216	116.5521	316	170.5114	416	224.4707	516	278.4300	616	332.3893	716	386.3486	816	440.3079	916	494.2672
17	9.17308	117	63.1324	217	117.0917	317	171.0510	417	225.0103	517	278.9696	617	332.9289	717	386.8882	817	440.8475	917	494.8068
18	9.71267	118	63.6720	218	117.6313	318	171.5906	418	225.5499	518	279.5092	618	333.4685	718	387.4278	818	441.3871	918	495.3464
19	10.25227	119	64.2116	219	118.1709	319	172.1302	419	226.0895	519	280.0488	619	334.0081	719	387.9674	819	441.9267	919	495.8860
20	10.79186	120	64.7512	220	118.7105	320	172.6698	420	226.6291	520	280.5884	620	334.5477	720	388.5070	820	442.4663	920	496.4256
21	11.33145	121	65.2908	221	119.2501	321	173.2094	421	227.1687	521	281.1280	621	335.0873	721	389.0466	821	443.0059	921	496.9652
22	11.87105	122	65.8303	222	119.7896	322	173.7489	422	227.7082	522	281.6675	622	335.6268	722	389.5861	822	443.5454	922	497.5047
23	12.41064	123	66.3699	223	120.3292	323	174.2885	423	228.2478	523	282.2071	623	336.1664	723	390.1257	823	444.0850	923	498.0443
24	12.95023	124	66.9095	224	120.8688	324	174.8281	424	228.7874	524	282.7467	624	336.7060	724	390.6653	824	444.6246	924	498.5839
25	13.48982	125	67.4491	225	121.4084	325	175.3677	425	229.3270	525	283.2863	625	337.2456	725	391.2049	825	445.1642	925	499.1235
26	14.02942	126	67.9887	226	121.9480	326	175.9073	426	229.8666	526	283.8259	626	337.7852	726	391.7445	826	445.7038	926	499.6631
27	14.56901	127	68.5283	227	122.4876	327	176.4469	427	230.4062	527	284.3655	627	338.3248	727	392.2841	827	446.2434	927	500.2027
28	15.10860	128	69.0679	228	123.0272	328	176.9865	428	230.9458	528	284.9051	628	338.8644	728	392.8237	828	446.7830	928	500.7423
29	15.64820	129	69.6075	229	123.5668	329	177.5261	429	231.4854	529	285.4447	629	339.4040	729	393.3633	829	447.3226	929	501.2819
30	16.18779	130	70.1471	230	124.1064	330	178.0657	430	232.0250	530	285.9843	630	339.9436	730	393.9029	830	447.8622	930	501.8215
31	16.72738	131	70.6867	231	124.6460	331	178.6053	431	232.5646	531	286.5239	631	340.4832	731	394.4425	831	448.4018	931	502.3611
32	17.26698	132	71.2263	232	125.1856	332	179.1449	432	233.1042	532	287.0635	632	341.0228	732	394.9821	832	448.9414	932	502.9007
33	17.80657	133	71.7659	233	125.7252	333	179.6845	433	233.6438	533	287.6031	633	341.5624	733	395.5217	833	449.4810	933	503.4403
34	18.34616	134	72.3055	234	126.2648	334	180.2241	434	234.1834	534	288.1427	634	342.1020	734	396.0613	834	450.0206	934	503.9799
35	18.88575	135	72.8451	235	126.8044	335	180.7637	435	234.7230	535	288.6823	635	342.6416	735	396.6009	835	450.5602	935	504.5195
36	19.42535	136	73.3846	236	127.3439	336	181.3032	436	235.2625	536	289.2218	636	343.1811	736	397.1404	836	451.0997	936	505.0590
37	19.96494	137	73.9242	237	127.8835	337	181.8428	437	235.8021	537	289.7614	637	343.7207	737	397.6800	837	451.6393	937	505.5986
38	20.50453	138	74.4638	238	128.4231	338	182.3824	438	236.3417	538	290.3010	638	344.2603	738	398.2196	838	452.1789	938	506.1382
39	21.04413	139	75.0034	239	128.9627	339	182.9220	439	236.8813	539	290.8406	639	344.7999	739	398.7592	839	452.7185	939	506.6778
40	21.58372	140	75.5430	240	129.5023	340	183.4616	440	237.4209	540	291.3802	640	345.3395	740	399.2988	840	453.2581	940	507.2174
41	22.12331	141	76.0826	241	130.0419	341	184.0012	441	237.9605	541	291.9198	641	345.8791	741	399.8384	841	453.7977	941	507.7570
42	22.66290	142	76.6222	242	130.5815	342	184.5408	442	238.5001	542	292.4594	642	346.4187	742	400.3780	842	454.3373	942	508.2966
43	23.20250	143	77.1618	243	131.1211	343	185.0804	443	239.0397	543	292.9990	643	346.9583	743	400.9176	843	454.8769	943	508.8362
44	23.74209	144	77.7014	244	131.6607	344	185.6200	444	239.5793	544	293.5386	644	347.4979	744	401.4572	844	455.4165	944	509.3758
45	24.28168	145	78.2410	245	132.2003	345	186.1596	445	240.1189	545	294.0782	645	348.0375	745	401.9968	845	455.9561	945	509.9154
46	24.82128	146	78.7806	246	132.7399	346	186.6992	446	240.6585	546	294.6178	646	348.5771	746	402.5364	846	456.4957	946	510.4550
47	25.36087	147	79.3202	247	133.2795	347	187.2388	447	241.1981	547	295.1574	647	349.1167	747	403.0760	847	457.0353	947	510.9946
48	25.90046	148	79.8598	248	133.8191	348	187.7784	448	241.7377	548	295.6970	648	349.6563	748	403.6156	848	457.5749	948	511.5342
49	26.44006	149	80.3994	249	134.3587	349	188.3180	449	242.2773	549	296.2366	649	350.1959	749	404.1552	849	458.1145	949	512.0738

	50	150	250	350	450	550	650	750	850	950
50	26.97965	80.9389	134.8982	188.8575	242.8168	296.7761	350.7354	404.6947	458.6540	512.6134
1	27.51924	81.4785	135.4378	189.3971	243.3564	297.3157	351.2750	405.2343	459.1936	513.1529
2	28.05884	82.0181	135.9774	189.9367	243.8960	297.8553	351.8146	405.7739	459.7332	513.6925
3	28.59843	82.5577	136.5170	190.4763	244.4356	298.3949	352.3542	406.3135	460.2728	514.2321
4	29.13802	83.0973	137.0566	191.0159	244.9752	298.9345	352.8938	406.8531	460.8124	514.7717
5	29.67762	83.6369	137.5962	191.5555	245.5148	299.4741	353.4334	407.3927	461.3520	515.3113
6	30.21721	84.1765	138.1358	192.0951	246.0544	300.0137	353.9730	407.9323	461.8916	515.8509
7	30.75680	84.7161	138.6754	192.6347	246.5940	300.5533	354.5126	408.4719	462.4312	516.3905
8	31.29639	85.2557	139.2150	193.1743	247.1336	301.0929	355.0522	409.0115	462.9708	516.9301
9	31.83599	85.7953	139.7546	193.7139	247.6732	301.6325	355.5918	409.5511	463.5104	517.4697
60	32.37558	86.3349	140.2942	194.2535	248.2128	302.1721	356.1314	410.0907	464.0500	518.0093
1	32.91517	86.8745	140.8338	194.7931	248.7524	302.7117	356.6710	410.6303	464.5896	518.5489
2	33.45477	87.4141	141.3734	195.3327	249.2920	303.2513	357.2106	411.1699	465.1292	519.0885
3	33.99436	87.9537	141.9130	195.8723	249.8316	303.7909	357.7502	411.7095	465.6688	519.6281
4	34.53395	88.4933	142.4526	196.4119	250.3712	304.3305	358.2898	412.2491	466.2084	520.1677
5	35.07354	89.0328	142.9921	196.9514	250.9107	304.8700	358.8293	412.7886	466.7479	520.7072
6	35.61314	89.5724	143.5317	197.4910	251.4503	305.4096	359.3689	413.3282	467.2875	521.2468
7	36.15273	90.1120	144.0713	198.0306	251.9899	305.9492	359.9085	413.8678	467.8271	521.7864
8	36.69232	90.6516	144.6109	198.5702	252.5295	306.4888	360.4481	414.4074	468.3667	522.3260
9	37.23192	91.1912	145.1505	199.1098	253.0691	307.0284	360.9877	414.9470	468.9063	522.8656
70	37.77151	91.7308	145.6901	199.6494	253.6087	307.5680	361.5273	415.4866	469.4459	523.4052
1	38.31110	92.2704	146.2297	200.1890	254.1483	308.1076	362.0669	416.0262	469.9855	523.9448
2	38.85070	92.8100	146.7693	200.7286	254.6879	308.6472	362.6065	416.5658	470.5251	524.4844
3	39.39029	93.3496	147.3089	201.2682	255.2275	309.1868	363.1461	417.1054	471.0647	525.0240
4	39.92988	93.8892	147.8485	201.8078	255.7671	309.7264	363.6857	417.6450	471.6043	525.5636
5	40.46947	94.4288	148.3881	202.3474	256.3067	310.2660	364.2253	418.1846	472.1439	526.1032
6	41.00907	94.9684	148.9277	202.8870	256.8463	310.8056	364.7649	418.7242	472.6835	526.6428
7	41.54866	95.5080	149.4673	203.4266	257.3859	311.3452	365.3045	419.2638	473.2231	527.1824
8	42.08825	96.0476	150.0069	203.9662	257.9255	311.8848	365.8441	419.8034	473.7627	527.7220
9	42.62785	96.5871	150.5464	204.5057	258.4650	312.4243	366.3836	420.3429	474.3022	528.2615
80	43.16744	97.1267	151.0860	205.0453	259.0046	312.9639	366.9232	420.8825	474.8418	528.8011
1	43.70703	97.6663	151.6256	205.5849	259.5442	313.5035	367.4628	421.4221	475.3814	529.3407
2	44.24663	98.2059	152.1652	206.1245	260.0838	314.0431	368.0024	421.9617	475.9210	529.8803
3	44.78622	98.7455	152.7048	206.6641	260.6234	314.5827	368.5420	422.5013	476.4606	530.4199
4	45.32581	99.2851	153.2444	207.2037	261.1630	315.1223	369.0816	423.0409	477.0002	530.9595
5	45.86540	99.8247	153.7840	207.7433	261.7026	315.6619	369.6212	423.5805	477.5398	531.4991
6	46.40500	100.3643	154.3236	208.2829	262.2422	316.2015	370.1608	424.1201	478.0794	532.0387
7	46.94459	100.9039	154.8632	208.8225	262.7818	316.7411	370.7004	424.6597	478.6190	532.5783
8	47.48418	101.4435	155.4028	209.3621	263.3214	317.2807	371.2400	425.1993	479.1586	533.1179
9	48.02378	101.9831	155.9424	209.9017	263.8610	317.8203	371.7796	425.7389	479.6982	533.6575
90	48.56337	102.5227	156.4820	210.4413	264.4006	318.3599	372.3192	426.2785	480.2378	534.1971
1	49.10296	103.0623	157.0216	210.9809	264.9402	318.8995	372.8588	426.8181	480.7774	534.7367
2	49.64256	103.6019	157.5612	211.5205	265.4798	319.4391	373.3984	427.3577	481.3170	535.2763
3	50.18215	104.1414	158.1007	212.0600	266.0193	319.9786	373.9379	427.8972	481.8565	535.8158
4	50.72174	104.6810	158.6403	212.5996	266.5589	320.5182	374.4775	428.4368	482.3961	536.3554
5	51.26133	105.2206	159.1799	213.1392	267.0985	321.0578	375.0171	428.9764	482.9357	536.8950
6	51.80093	105.7602	159.7195	213.6788	267.6381	321.5974	375.5567	429.5160	483.4753	537.4346
7	52.34052	106.2998	160.2591	214.2184	268.1777	322.1370	376.0963	430.0556	484.0149	537.9742
8	52.88011	106.8394	160.7987	214.7580	268.7173	322.6766	376.6359	430.5952	484.5545	538.5138
9	53.41971	107.3790	161.3383	215.2976	269.2569	323.2162	377.1755	431.1348	485.0941	539.0534

AREA—ACRES TO HECTARES

[Reduction factor: 1 acre=0.404687260 hectare]

Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares
0	0.40469	100	40.46373	200	80.93745	300	121.40618	400	161.87490	500	202.34363	600	242.81236	700	283.28108	800	323.74981	900	364.21853
1	0.80937	1	40.87341	1	81.34214	1	121.81087	1	162.27959	1	202.74832	1	243.21704	1	283.68577	1	324.15450	1	364.62322
2	1.21406	2	41.27810	2	81.74683	2	122.21555	2	162.68428	2	203.15301	2	243.62173	2	284.09046	2	324.55918	2	365.02791
3	1.61875	3	41.68279	3	82.15151	3	122.62024	3	163.08897	3	203.55769	3	244.02642	3	284.49514	3	324.96387	3	365.43260
4	2.02344	4	42.08748	4	82.55620	4	123.02493	4	163.49365	4	203.96238	4	244.43111	4	284.89983	4	325.36856	4	365.83728
5	2.42812	5	42.49216	5	82.96089	5	123.42961	5	163.89834	5	204.36707	5	244.83579	5	285.30452	5	325.77325	5	366.24197
6	2.83281	6	42.89685	6	83.36558	6	123.83430	6	164.30303	6	204.77175	6	245.24048	6	285.70921	6	326.17793	6	366.64666
7	3.23750	7	43.30154	7	83.77026	7	124.23899	7	164.70772	7	205.17644	7	245.64517	7	286.11389	7	326.58262	7	367.05135
8	3.64219	8	43.70622	8	84.17495	8	124.64368	8	165.11240	8	205.58113	8	246.04985	8	286.51858	8	326.98731	8	367.45603
9	—	9	44.11091	9	84.57964	9	125.04836	9	165.51709	9	205.98582	9	246.45454	9	286.92327	9	327.39199	9	367.86072
10	4.04687	110	44.51560	210	84.98432	310	125.45305	410	165.92178	510	206.39050	610	246.85923	710	287.32796	810	327.79668	910	368.26541
1	4.45156	1	44.92029	1	85.38901	1	125.85774	1	166.32646	1	206.79519	1	247.26392	1	287.73264	1	328.20137	1	368.67009
2	4.85625	2	45.32497	2	85.79370	2	126.26243	2	166.73115	2	207.19988	2	247.66860	2	288.13733	2	328.60606	2	369.07478
3	5.26093	3	45.72966	3	86.19839	3	126.66711	3	167.13584	3	207.60456	3	248.07329	3	288.54202	3	329.01074	3	369.47947
4	5.66562	4	46.13435	4	86.60307	4	127.07180	4	167.54053	4	208.00925	4	248.47798	4	288.94670	4	329.41543	4	369.88416
5	6.07031	5	46.53904	5	87.00776	5	127.47649	5	167.94521	5	208.41394	5	248.88267	5	289.35139	5	329.82012	5	370.28884
6	6.47500	6	46.94372	6	87.41245	6	127.88117	6	168.34990	6	208.81863	6	249.28735	6	289.75608	6	330.22480	6	370.69353
7	6.87968	7	47.34841	7	87.81714	7	128.28586	7	168.75459	7	209.22331	7	249.69204	7	290.16077	7	330.62949	7	371.09822
8	7.28437	8	47.75310	8	88.22182	8	128.69055	8	169.15928	8	209.62800	8	250.09673	8	290.56545	8	331.03418	8	371.50291
9	7.68906	9	48.15778	9	88.62651	9	129.09524	9	169.56396	9	210.03269	9	250.50141	9	290.97014	9	331.43887	9	371.90759
20	8.09375	120	48.56247	220	89.03120	320	129.49992	420	169.96865	520	210.43738	620	250.90610	720	291.37483	820	331.84355	920	372.31228
1	8.49843	1	48.96716	1	89.43588	1	129.90461	1	170.37334	1	210.84206	1	251.31079	1	291.77952	1	332.24824	1	372.71697
2	8.90312	2	49.37185	2	89.84057	2	130.30930	2	170.77802	2	211.24675	2	251.71548	2	292.18420	2	332.65293	2	373.12165
3	9.30781	3	49.77653	3	90.24526	3	130.71399	3	171.18271	3	211.65144	3	252.12016	3	292.58889	3	333.05762	3	373.52634
4	9.71249	4	50.18122	4	90.64995	4	131.11867	4	171.58740	4	212.05612	4	252.52485	4	292.99358	4	333.46230	4	373.93103
5	10.11718	5	50.58591	5	91.05463	5	131.52336	5	171.99209	5	212.46081	5	252.92954	5	293.39826	5	333.86699	5	374.33572
6	10.52187	6	50.99059	6	91.45932	6	131.92805	6	172.39677	6	212.86550	6	253.33423	6	293.80295	6	334.27168	6	374.74040
7	10.92656	7	51.39523	7	91.86401	7	132.33273	7	172.80146	7	213.27019	7	253.73891	7	294.20764	7	334.67635	7	375.14509
8	11.33124	8	51.79997	8	92.26870	8	132.73742	8	173.20615	8	213.67487	8	254.14360	8	294.61233	8	335.08105	8	375.54978
9	11.73593	9	52.20466	9	92.67338	9	133.14211	9	173.61083	9	214.07956	9	254.54829	9	295.01701	9	335.48574	9	375.95447
30	12.14062	130	52.60934	230	93.07807	330	133.54680	430	174.01552	530	214.48425	630	254.95297	730	295.42170	830	335.89043	930	376.35915
1	12.54531	1	53.01403	1	93.48276	1	133.95148	1	174.42021	1	214.88894	1	255.35766	1	295.82639	1	336.29511	1	376.76384
2	12.94999	2	53.41872	2	93.88744	2	134.35617	2	174.82490	2	215.29362	2	255.76235	2	296.23108	2	336.69980	2	377.16853
3	13.35468	3	53.82341	3	94.29213	3	134.76086	3	175.22958	3	215.69831	3	256.16704	3	296.63576	3	337.10449	3	377.57321
4	13.75937	4	54.22809	4	94.69682	4	135.16555	4	175.63427	4	216.10300	4	256.57172	4	297.04045	4	337.50918	4	377.97790
5	14.16405	5	54.63278	5	95.10151	5	135.57023	5	176.03896	5	216.50768	5	256.97641	5	297.44514	5	337.91386	5	378.38259
6	14.56874	6	55.03747	6	95.50619	6	135.97492	6	176.44365	6	216.91237	6	257.38110	6	297.84982	6	338.31855	6	378.78723
7	14.97343	7	55.44215	7	95.91088	7	136.37961	7	176.84833	7	217.31706	7	257.78579	7	298.25451	7	338.72324	7	379.19196
8	15.37811	8	55.84684	8	96.31557	8	136.78429	8	177.25302	8	217.72175	8	258.19047	8	298.65920	8	339.12792	8	379.59665
9	15.78280	9	56.25153	9	96.72026	9	137.18898	9	177.65771	9	218.12643	9	258.59516	9	299.06389	9	339.53261	9	380.00134
40	16.18749	140	56.65622	240	97.12494	340	137.59367	440	178.06239	540	218.53112	640	258.99985	740	299.46857	840	339.93730	940	380.40603
1	16.59218	1	57.06090	1	97.52963	1	137.99836	1	178.46708	1	218.93581	1	259.40453	1	299.87326	1	340.34199	1	380.81071
2	16.99686	2	57.46559	2	97.93432	2	138.40304	2	178.87177	2	219.34050	2	259.80922	2	300.27795	2	340.74667	2	381.21540
3	17.40155	3	57.87028	3	98.33900	3	138.80773	3	179.27646	3	219.74518	3	260.21391	3	300.68263	3	341.15136	3	381.62009
4	17.80624	4	58.27497	4	98.74369	4	139.21242	4	179.68114	4	220.14987	4	260.61860	4	301.08732	4	341.55605	4	382.02477
5	18.21093	5	58.67965	5	99.14838	5	139.61711	5	180.08583	5	220.55456	5	261.02328	5	301.49201	5	341.96074	5	382.42946
6	18.61561	6	59.08434	6	99.55307	6	140.02179	6	180.49052	6	220.95924	6	261.42797	6	301.89670	6	342.36542	6	382.83415
7	19.02030	7	59.48903	7	99.95775	7	140.42648	7	180.89521	7	221.36393	7	261.83266	7	302.30138	7	342.77011	7	383.23884
8	19.42499	8	59.89371	8	100.36244	8	140.83117	8	181.29989	8	221.76862	8	262.23735	8	302.70607	8	343.17480	8	383.64352
9	19.82968	9	60.29840	9	100.76713	9	141.23585	9	181.70458	9	222.17331	9	262.64203	9	303.11076	9	343.57948	9	384.04821

	50s		150s		250s		350s		450s		550s		650s		750s		850s		950s
50	20.23436	150	60.70309	250	101.17182	350	141.64054	450	182.10927	550	222.57799	650	263.04672	750	303.51545	850	343.98417	950	384.45290
1	20.63905	1	61.10778	1	101.57650	1	142.04523	1	182.51395	1	222.98268	1	263.45141	1	303.92013	1	344.38886	1	384.85759
2	21.04374	2	61.51246	2	101.98119	2	142.44992	2	182.91864	2	223.38737	2	263.85609	2	304.32482	2	344.79355	2	385.26227
3	21.44842	3	61.91715	3	102.38588	3	142.85460	3	183.32333	3	223.79206	3	264.26078	3	304.72951	3	345.19823	3	385.66696
4	21.85311	4	62.32184	4	102.79056	4	143.25929	4	183.72802	4	224.19674	4	264.66547	4	305.13419	4	345.60292	4	386.07165
5	22.25780	5	62.72653	5	103.19525	5	143.66398	5	184.13270	5	224.60143	5	265.07016	5	305.53888	5	346.00761	5	386.47633
6	22.66249	6	63.13121	6	103.59994	6	144.06866	6	184.53739	6	225.00612	6	265.47484	6	305.94357	6	346.41230	6	386.88102
7	23.06717	7	63.53590	7	104.00463	7	144.47335	7	184.94208	7	225.41080	7	265.87953	7	306.34826	7	346.81698	7	387.28571
8	23.47186	8	63.94059	8	104.40931	8	144.87804	8	185.34677	8	225.81549	8	266.28422	8	306.75294	8	347.22167	8	387.69040
9	23.87655	9	64.34527	9	104.81400	9	145.28273	9	185.75145	9	226.22018	9	266.68890	9	307.15763	9	347.62636	9	388.09508
60	24.28124	160	64.74996	260	105.21869	360	145.68741	460	186.15614	560	226.62487	660	267.09359	760	307.56232	860	348.03104	960	388.49977
1	24.68592	1	65.15465	1	105.62338	1	146.09210	1	186.56083	1	227.02955	1	267.49828	1	307.96701	1	348.43573	1	388.90446
2	25.09061	2	65.55934	2	106.02806	2	146.49679	2	186.96551	2	227.43424	2	267.90297	2	308.37169	2	348.84042	2	389.30915
3	25.49530	3	65.96402	3	106.43275	3	146.90148	3	187.37020	3	227.83893	3	268.30765	3	308.77638	3	349.24511	3	389.71383
4	25.89998	4	66.36871	4	106.83744	4	147.30616	4	187.77489	4	228.24362	4	268.71234	4	309.18107	4	349.64979	4	390.11852
5	26.30467	5	66.77340	5	107.24212	5	147.71085	5	188.17958	5	228.64830	5	269.11703	5	309.58575	5	350.05448	5	390.52321
6	26.70936	6	67.17809	6	107.64681	6	148.11554	6	188.58426	6	229.05299	6	269.52172	6	309.99044	6	350.45917	6	390.92789
7	27.11405	7	67.58277	7	108.05150	7	148.52022	7	188.98895	7	229.45768	7	269.92640	7	310.39513	7	350.86386	7	391.33258
8	27.51873	8	67.98746	8	108.45619	8	148.92491	8	189.39364	8	229.86236	8	270.33109	8	310.79982	8	351.26854	8	391.73727
9	27.92342	9	68.39215	9	108.86087	9	149.32960	9	189.79833	9	230.26705	9	270.73578	9	311.20450	9	351.67323	9	392.14196
70	28.32811	170	68.79683	270	109.26556	370	149.73429	470	190.20301	570	230.67174	670	271.14046	770	311.60919	870	352.07792	970	392.54664
1	28.73280	1	69.20152	1	109.67025	1	150.13897	1	190.60770	1	231.07643	1	271.54515	1	312.01388	1	352.48260	1	392.95133
2	29.13748	2	69.60621	2	110.07493	2	150.54366	2	191.01239	2	231.48111	2	271.94984	2	312.41857	2	352.88729	2	393.35602
3	29.54217	3	70.01090	3	110.47962	3	150.94835	3	191.41707	3	231.88580	3	272.35453	3	312.82325	3	353.29198	3	393.76070
4	29.94686	4	70.41558	4	110.88431	4	151.35304	4	191.82176	4	232.29049	4	272.75921	4	313.22794	4	353.69667	4	394.16539
5	30.35154	5	70.82027	5	111.28900	5	151.75772	5	192.22645	5	232.69518	5	273.16390	5	313.63263	5	354.10135	5	394.57008
6	30.75623	6	71.22496	6	111.69368	6	152.16241	6	192.63114	6	233.09986	6	273.56859	6	314.03731	6	354.50604	6	394.97477
7	31.16092	7	71.62965	7	112.09837	7	152.56710	7	193.03582	7	233.50455	7	273.97328	7	314.44200	7	354.91073	7	395.37945
8	31.56561	8	72.03433	8	112.50306	8	152.97178	8	193.44051	8	233.90924	8	274.37796	8	314.84669	8	355.31542	8	395.78414
9	31.97029	9	72.43902	9	112.90775	9	153.37647	9	193.84520	9	234.31392	9	274.78265	9	315.25138	9	355.72010	9	396.18883
80	32.37498	180	72.84371	280	113.31243	380	153.78116	480	194.24989	580	234.71861	680	275.18734	780	315.65606	880	356.12479	980	396.59352
1	32.77967	1	73.24839	1	113.71712	1	154.18585	1	194.65457	1	235.12330	1	275.59202	1	316.06075	1	356.52948	1	396.99820
2	33.18436	2	73.65308	2	114.12181	2	154.59053	2	195.05926	2	235.52799	2	275.99671	2	316.46544	2	356.93416	2	397.40289
3	33.58904	3	74.05777	3	114.52649	3	154.99522	3	195.46395	3	235.93267	3	276.40140	3	316.87013	3	357.33885	3	397.80758
4	33.99373	4	74.46246	4	114.93118	4	155.39991	4	195.86863	4	236.33736	4	276.80609	4	317.27481	4	357.74354	4	398.21226
5	34.39842	5	74.86714	5	115.33587	5	155.80460	5	196.27332	5	236.74205	5	277.21077	5	317.67950	5	358.14823	5	398.61695
6	34.80310	6	75.27183	6	115.74056	6	156.20928	6	196.67801	6	237.14673	6	277.61546	6	318.08419	6	358.55291	6	399.02164
7	35.20779	7	75.67652	7	116.14524	7	156.61397	7	197.08270	7	237.55142	7	278.02015	7	318.48887	7	358.95760	7	399.42633
8	35.61248	8	76.08121	8	116.54993	8	157.01866	8	197.48738	8	237.95611	8	278.42484	8	318.89356	8	359.36229	8	399.83101
9	36.01717	9	76.48589	9	116.95462	9	157.42334	9	197.89207	9	238.36080	9	278.82952	9	319.29825	9	359.76698	9	400.23570
90	36.42185	190	76.89058	290	117.35931	390	157.82803	490	198.29676	590	238.76548	690	279.23421	790	319.70294	890	360.17166	990	400.64039
1	36.82654	1	77.29527	1	117.76399	1	158.23272	1	198.70145	1	239.17017	1	279.63890	1	320.10762	1	360.57635	1	401.04508
2	37.23123	2	77.69995	2	118.16868	2	158.63741	2	199.10613	2	239.57486	2	280.04358	2	320.51231	2	360.98104	2	401.44976
3	37.63592	3	78.10464	3	118.57337	3	159.04209	3	199.51082	3	239.97955	3	280.44827	3	320.91700	3	361.38572	3	401.85445
4	38.04060	4	78.50933	4	118.97805	4	159.44678	4	199.91551	4	240.38423	4	280.85296	4	321.32169	4	361.79041	4	402.25914
5	38.44529	5	78.91402	5	119.38274	5	159.85147	5	200.32019	5	240.78892	5	281.25765	5	321.72637	5	362.19510	5	402.66382
6	38.84998	6	79.31870	6	119.78743	6	160.25616	6	200.72488	6	241.19361	6	281.66233	6	322.13106	6	362.59979	6	403.06851
7	39.25466	7	79.72339	7	120.19212	7	160.66084	7	201.12957	7	241.59829	7	282.06702	7	322.53575	7	363.00447	7	403.47320
8	39.65935	8	80.12808	8	120.59680	8	161.06553	8	201.53426	8	242.00298	8	282.47171	8	322.94043	8	363.40916	8	403.87789
9	40.06404	9	80.53276	9	121.00149	9	161.47022	9	201.93894	9	242.40767	9	282.87640	9	323.34512	9	363.81385	9	404.28257

AREA—HECTARES TO ACRES

[Reduction factor: 1 hectare= 2.4710439309 acres]

Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres
0		100	247.10439	200	494.20879	300	741.31318	400	988.41757	500	1,235.52197	600	1,482.62636	700	1,729.73075	800	1,976.83514	900	2,223.93954
1	2.47104	1	249.57544	1	496.67983	1	743.78422	1	990.88862	1	1,237.99301	1	1,485.09740	1	1,732.20180	1	1,979.30619	1	2,226.41058
2	4.94209	2	252.04648	2	499.15087	2	746.25527	2	993.35966	2	1,240.46405	2	1,487.56845	2	1,734.67284	2	1,981.77723	2	2,228.88163
3	7.41313	3	254.51752	3	501.62192	3	748.72631	3	995.83070	3	1,242.93510	3	1,490.03949	3	1,737.14388	3	1,984.24828	3	2,231.35267
4	9.88418	4	256.98857	4	504.09296	4	751.19735	4	998.30175	4	1,245.40614	4	1,492.51053	4	1,739.61493	4	1,986.71932	4	2,233.82371
5	12.35522	5	259.45961	5	506.56401	5	753.66840	5	1,000.77279	5	1,247.87718	5	1,494.98158	5	1,742.08597	5	1,989.19036	5	2,236.29476
6	14.82626	6	261.93066	6	509.03505	6	756.13944	6	1,003.24384	6	1,250.34823	6	1,497.45262	6	1,744.55701	6	1,991.66141	6	2,238.76580
7	17.29731	7	264.40170	7	511.50609	7	758.61049	7	1,005.71488	7	1,252.81927	7	1,499.92367	7	1,747.02806	7	1,994.13245	7	2,241.23684
8	19.76835	8	266.87274	8	513.97714	8	761.08153	8	1,008.18592	8	1,255.29032	8	1,502.39471	8	1,749.49910	8	1,996.60350	8	2,243.70789
9	22.23940	9	269.34379	9	516.44818	9	763.55257	9	1,010.65697	9	1,257.76136	9	1,504.86575	9	1,751.97015	9	1,999.07454	9	2,246.17893
10	24.71044	110	271.81483	210	518.91923	310	766.02362	410	1,013.12801	510	1,260.23240	610	1,507.33680	710	1,754.44119	810	2,001.54558	910	2,248.64998
1	27.18148	1	274.28588	1	521.39027	1	768.49466	1	1,015.59906	1	1,262.70345	1	1,509.80784	1	1,756.91223	1	2,004.01663	1	2,251.12102
2	29.65253	2	276.75692	2	523.86131	2	770.96571	2	1,018.07010	2	1,265.17449	2	1,512.27889	2	1,759.38328	2	2,006.48767	2	2,253.59206
3	32.12357	3	279.22796	3	526.33236	3	773.43675	3	1,020.54114	3	1,267.64554	3	1,514.74993	3	1,761.85432	3	2,008.95872	3	2,256.06311
4	34.59462	4	281.69901	4	528.80340	4	775.90779	4	1,023.01219	4	1,270.11658	4	1,517.22097	4	1,764.32537	4	2,011.42976	4	2,258.53415
5	37.06566	5	284.17005	5	531.27444	5	778.37884	5	1,025.48323	5	1,272.58762	5	1,519.69202	5	1,766.79641	5	2,013.90080	5	2,261.00520
6	39.53670	6	286.64110	6	533.74549	6	780.84988	6	1,027.95427	6	1,275.05867	6	1,522.16306	6	1,769.26745	6	2,016.37185	6	2,263.47624
7	42.00775	7	289.11214	7	536.21653	7	783.32093	7	1,030.42532	7	1,277.52971	7	1,524.63411	7	1,771.73850	7	2,018.84289	7	2,265.94728
8	44.47879	8	291.58318	8	538.68758	8	785.79197	8	1,032.89636	8	1,280.00076	8	1,527.10515	8	1,774.20954	8	2,021.31394	8	2,268.41833
9	46.94983	9	294.05423	9	541.15862	9	788.26301	9	1,035.36741	9	1,282.47180	9	1,529.57619	9	1,776.68059	9	2,023.78498	9	2,270.88937
20	49.42088	120	296.52527	220	543.62966	320	790.73406	420	1,037.83845	520	1,284.94284	620	1,532.04724	720	1,779.15163	820	2,026.25602	920	2,273.36042
1	51.89192	1	298.99632	1	546.10071	1	793.20510	1	1,040.30949	1	1,287.41389	1	1,534.51828	1	1,781.62267	1	2,028.72707	1	2,275.83146
2	54.36297	2	301.46736	2	548.57175	2	795.67615	2	1,042.78054	2	1,289.88493	2	1,536.98932	2	1,784.09372	2	2,031.19811	2	2,278.30250
3	56.83401	3	303.93840	3	551.04280	3	798.14719	3	1,045.25158	3	1,292.35598	3	1,539.46037	3	1,786.56476	3	2,033.66915	3	2,280.77355
4	59.30505	4	306.40945	4	553.51384	4	800.61823	4	1,047.72263	4	1,294.82702	4	1,541.93141	4	1,789.03581	4	2,036.14020	4	2,283.24459
5	61.77610	5	308.88049	5	555.98488	5	803.08928	5	1,050.19367	5	1,297.29806	5	1,544.40246	5	1,791.50685	5	2,038.61124	5	2,285.71564
6	64.24714	6	311.35154	6	558.45593	6	805.56032	6	1,052.66471	6	1,299.76911	6	1,546.87350	6	1,793.97789	6	2,041.08229	6	2,288.18668
7	66.71819	7	313.82258	7	560.92697	7	808.03137	7	1,055.13576	7	1,302.24015	7	1,549.34454	7	1,796.44894	7	2,043.55333	7	2,290.65772
8	69.18923	8	316.29362	8	563.39802	8	810.50241	8	1,057.60680	8	1,304.71120	8	1,551.81559	8	1,798.91998	8	2,046.02437	8	2,293.12877
9	71.66027	9	318.76467	9	565.86906	9	812.97345	9	1,060.07785	9	1,307.18224	9	1,554.28663	9	1,801.39103	9	2,048.49542	9	2,295.59981
30	74.13132	130	321.23571	230	568.34010	330	815.44450	430	1,062.54889	530	1,309.65328	630	1,556.75768	730	1,803.86207	830	2,050.96646	930	2,298.07086
1	76.60236	1	323.70675	1	570.81115	1	817.91554	1	1,065.01993	1	1,312.12433	1	1,559.22872	1	1,806.33311	1	2,053.43751	1	2,300.54190
2	79.07341	2	326.17780	2	573.28219	2	820.38658	2	1,067.49098	2	1,314.59537	2	1,561.69976	2	1,808.80416	2	2,055.90855	2	2,303.01294
3	81.54445	3	328.64884	3	575.75324	3	822.85763	3	1,069.96202	3	1,317.06641	3	1,564.17081	3	1,811.27520	3	2,058.37959	3	2,305.48399
4	84.01549	4	331.11989	4	578.22428	4	825.32867	4	1,072.43307	4	1,319.53746	4	1,566.64185	4	1,813.74624	4	2,060.85064	4	2,307.95503
5	86.48654	5	333.59093	5	580.69532	5	827.79972	5	1,074.90411	5	1,322.00850	5	1,569.11290	5	1,816.21729	5	2,063.32168	5	2,310.42607
6	88.95758	6	336.06197	6	583.16637	6	830.27076	6	1,077.37515	6	1,324.47955	6	1,571.58394	6	1,818.68833	6	2,065.79273	6	2,312.89712
7	91.42863	7	338.53302	7	585.63741	7	832.74180	7	1,079.84620	7	1,326.95059	7	1,574.05498	7	1,821.15938	7	2,068.26377	7	2,315.36816
8	93.89967	8	341.00406	8	588.10846	8	835.21285	8	1,082.31724	8	1,329.42163	8	1,576.52603	8	1,823.63042	8	2,070.73481	8	2,317.83921
9	96.37071	9	343.47511	9	590.57950	9	837.68389	9	1,084.78829	9	1,331.89268	9	1,578.99707	9	1,826.10146	9	2,073.20586	9	2,320.31025
40	98.84176	140	345.94615	240	593.05054	340	840.15494	440	1,087.25933	540	1,334.36372	640	1,581.46812	740	1,828.57251	840	2,075.67690	940	2,322.78129
1	101.31280	1	348.41719	1	595.52159	1	842.62598	1	1,089.73037	1	1,336.83477	1	1,583.93916	1	1,831.04355	1	2,078.14795	1	2,325.25234
2	103.78385	2	350.88824	2	597.99263	2	845.09702	2	1,092.20142	2	1,339.30581	2	1,586.41020	2	1,833.51460	2	2,080.61899	2	2,327.72338
3	106.25489	3	353.35928	3	600.46367	3	847.56807	3	1,094.67246	3	1,341.77685	3	1,588.88125	3	1,835.98564	3	2,083.09003	3	2,330.19443
4	108.72593	4	355.83033	4	602.93472	4	850.03911	4	1,097.14350	4	1,344.24790	4	1,591.35229	4	1,838.45668	4	2,085.56108	4	2,332.66547
5	111.19698	5	358.30137	5	605.40576	5	852.51016	5	1,099.61455	5	1,346.71894	5	1,593.82334	5	1,840.92773	5	2,088.03212	5	2,335.13651
6	113.66802	6	360.77241	6	607.87681	6	854.98120	6	1,102.08559	6	1,349.18999	6	1,596.29438	6	1,843.39877	6	2,090.50317	6	2,337.60756
7	116.13906	7	363.24346	7	610.34785	7	857.45224	7	1,104.55664	7	1,351.66103	7	1,598.76542	7	1,845.86982	7	2,092.97421	7	2,340.07860
8	118.61011	8	365.71450	8	612.81889	8	859.92329	8	1,107.02768	8	1,354.13207	8	1,601.23647	8	1,848.34086	8	2,095.44525	8	2,342.54965
9	121.08115	9	368.18555	9	615.28994	9	862.39433	9	1,109.49872	9	1,356.60312	9	1,603.70751	9	1,850.81190	9	2,097.91630	9	2,345.02069

	50	60	70	80	90
0	123.55220	148.26264	172.97308	197.68351	222.39395
1	126.02324	150.73368	175.44412	200.15456	224.86500
2	128.49428	153.20472	177.91516	202.62560	227.33604
3	130.96533	155.67577	180.38621	205.09665	229.80709
4	133.43637	158.14681	182.85725	207.56769	232.27813
5	135.90742	160.61786	185.32829	210.03873	234.74917
6	138.37846	163.08890	187.79934	212.50978	237.22022
7	140.84950	165.55994	190.27038	214.98082	239.69126
8	143.32055	168.03099	192.74143	217.45187	242.16231
9	145.79159	170.50203	195.21247	219.92291	244.63335

	150	160	170	180	190
0	370.65659	395.36703	420.07747	444.78791	469.49835
1	373.12763	397.83807	422.54851	447.25895	471.96939
2	375.59868	400.30912	425.01956	449.73000	474.44043
3	378.06972	402.78016	427.49060	452.20104	476.91148
4	380.54077	405.25120	429.96164	454.67208	479.38252
5	383.01181	407.72225	432.43269	457.14313	481.85357
6	385.48285	410.19329	434.90373	459.61417	484.32461
7	387.95390	412.66434	437.37478	462.08521	486.79565
8	390.42494	415.13538	439.84582	464.55626	489.26670
9	392.89598	417.60642	442.31686	467.02730	491.73774

	250	260	270	280	290
0	617.76098	642.47142	667.18186	691.89230	716.60274
1	620.23203	644.94247	669.65291	694.36334	719.07378
2	622.70307	647.41351	672.12395	696.83439	721.54483
3	625.17411	649.88455	674.59499	699.30543	724.01587
4	627.64516	652.35560	677.06604	701.77648	726.48692
5	630.11620	654.82664	679.53708	704.24752	728.95796
6	632.58725	657.29769	682.00812	706.71856	731.42900
7	635.05829	659.76873	684.47917	709.18961	733.90005
8	637.52933	662.23977	686.95021	711.66065	736.37109
9	640.00038	664.71082	689.42126	714.13170	738.84214

	350	360	370	380	390
0	864.86538	889.57581	914.28625	938.99669	963.70713
1	867.33642	892.04686	916.75730	941.46774	966.17818
2	869.80746	894.51790	919.22834	943.93878	968.64922
3	872.27851	896.98895	921.69939	946.40983	971.12026
4	874.74955	899.45999	924.17043	948.88087	973.59131
5	877.22060	901.93103	926.64147	951.35191	976.06235
6	879.69164	904.40208	929.11252	953.82296	978.53340
7	882.16268	906.87312	931.58356	956.29400	981.00444
8	884.63373	909.34417	934.05461	958.76504	983.47548
9	887.10477	911.81521	936.52565	961.23609	985.94653

	450	460	470	480	490
0	1,111.96977	1,136.68021	1,161.39065	1,186.10109	1,210.81153
1	1,114.44081	1,139.15125	1,163.86169	1,188.57213	1,213.28257
2	1,116.91186	1,141.62230	1,166.33273	1,191.04317	1,215.75361
3	1,119.38290	1,144.09334	1,168.80378	1,193.51422	1,218.22466
4	1,121.85394	1,146.56438	1,171.27482	1,195.98526	1,220.69570
5	1,124.32499	1,149.03543	1,173.74587	1,198.45631	1,223.16675
6	1,126.79603	1,151.50647	1,176.21691	1,200.92735	1,225.63779
7	1,129.26708	1,153.97752	1,178.68795	1,203.39839	1,228.10883
8	1,131.73812	1,156.44856	1,181.15900	1,205.86944	1,230.57988
9	1,134.20916	1,158.91960	1,183.63004	1,208.34048	1,233.05092

	550	560	570	580	590
0	1,359.07416	1,383.78460	1,408.49504	1,433.20548	1,457.91592
1	1,361.54521	1,386.25564	1,410.96608	1,435.67652	1,460.38696
2	1,364.01625	1,388.72669	1,413.43713	1,438.14757	1,462.85801
3	1,366.48729	1,391.19773	1,415.90817	1,440.61861	1,465.32905
4	1,368.95834	1,393.66878	1,418.37922	1,443.08966	1,467.80009
5	1,371.42938	1,396.13982	1,420.85026	1,445.56070	1,470.27114
6	1,373.90043	1,398.61086	1,423.32130	1,448.03174	1,472.74218
7	1,376.37147	1,401.08191	1,425.79235	1,450.50279	1,475.21323
8	1,378.84251	1,403.55295	1,428.26339	1,452.97383	1,477.68427
9	1,381.31356	1,406.02400	1,430.73444	1,455.44487	1,480.15531

	650	660	670	680	690
0	1,606.17855	1,630.88899	1,655.59943	1,680.30987	1,705.02031
1	1,608.64960	1,633.36004	1,658.07048	1,682.78092	1,707.49136
2	1,611.12064	1,635.83108	1,660.54152	1,685.25196	1,709.96240
3	1,613.59169	1,638.30213	1,663.01257	1,687.72300	1,712.43344
4	1,616.06273	1,640.77317	1,665.48361	1,690.19405	1,714.90449
5	1,618.53377	1,643.24421	1,667.95465	1,692.66509	1,717.37553
6	1,621.00482	1,645.71526	1,670.42570	1,695.13614	1,719.84658
7	1,623.47586	1,648.18630	1,672.89674	1,697.60718	1,722.31762
8	1,625.94691	1,650.65735	1,675.36778	1,700.07822	1,724.78866
9	1,628.41795	1,653.12839	1,677.83883	1,702.54927	1,727.25971

	750	760	770	780	790
0	1,853.28295	1,877.99339	1,902.70383	1,927.41427	1,952.12471
1	1,855.75399	1,880.46443	1,905.17487	1,929.88531	1,954.59575
2	1,858.22504	1,882.93547	1,907.64591	1,932.35635	1,957.06679
3	1,860.69608	1,885.40652	1,910.11696	1,934.82740	1,959.53784
4	1,863.16712	1,887.87756	1,912.58800	1,937.29844	1,962.00888
5	1,865.63817	1,890.34861	1,915.05905	1,939.76949	1,964.47992
6	1,868.10921	1,892.81965	1,917.53009	1,942.24053	1,966.95097
7	1,870.58026	1,895.29069	1,920.00113	1,944.71157	1,969.42201
8	1,873.05130	1,897.76174	1,922.47218	1,947.18262	1,971.89306
9	1,875.52234	1,900.23278	1,924.94322	1,949.65366	1,974.36410

	850	860	870	880	890
0	2,100.38734	2,125.09778	2,149.80822	2,174.51866	2,199.22910
1	2,102.85838	2,127.56882	2,152.27926	2,176.98970	2,201.70014
2	2,105.32943	2,130.03987	2,154.75031	2,179.46075	2,204.17119
3	2,107.80047	2,132.51091	2,157.22135	2,181.93179	2,206.64223
4	2,110.27152	2,134.98196	2,159.69240	2,184.40283	2,209.11327
5	2,112.74256	2,137.45300	2,162.16344	2,186.87388	2,211.58432
6	2,115.21360	2,139.92404	2,164.63448	2,189.34492	2,214.05536
7	2,117.68465	2,142.39509	2,167.10553	2,191.81597	2,216.52641
8	2,120.15569	2,144.86613	2,169.57657	2,194.28701	2,218.99745
9	2,122.62674	2,147.33718	2,172.04761	2,196.75805	2,221.46849

	950	960	970	980	990
0	2,347.49173	2,372.20217	2,396.91261	2,421.62305	2,446.33349
1	2,349.96278	2,374.67322	2,399.38366	2,424.09410	2,448.80454
2	2,352.43382	2,377.14426	2,401.85470	2,426.56514	2,451.27558
3	2,354.90487	2,379.61530	2,404.32574	2,429.03618	2,453.74662
4	2,357.37591	2,382.08635	2,406.79679	2,431.50723	2,456.21767
5	2,359.84695	2,384.55739	2,409.26783	2,433.97827	2,458.68871
6	2,362.31800	2,387.02844	2,411.73888	2,436.44932	2,461.15975
7	2,364.78904	2,389.49948	2,414.20992	2,438.92036	2,463.63080
8	2,367.26009	2,391.97052	2,416.68096	2,441.39140	2,466.10184
9	2,369.73113	2,394.44157	2,419.15201	2,443.86245	2,468.57289

VOLUME—CUBIC YARDS TO CUBIC METERS

[Reduction factor: 1 cubic yard=0.764594453 cubic meter]

Lower band (0–449)

Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters
0	0	100	76.45594	200	152.91189	300	229.36783	400	305.82378
1	0.76456	101	77.22050	201	153.67645	301	230.13239	401	306.58834
2	1.52912	102	77.98506	202	154.44101	302	230.89695	402	307.35290
3	2.29368	103	78.74962	203	155.20557	303	231.66151	403	308.11746
4	3.05824	104	79.51418	204	155.97013	304	232.42607	404	308.88202
5	3.82280	105	80.27874	205	156.73469	305	233.19063	405	309.64658
6	4.58736	106	81.04330	206	157.49925	306	233.95519	406	310.41113
7	5.35192	107	81.80786	207	158.26381	307	234.71975	407	311.17569
8	6.11648	108	82.57242	208	159.02836	308	235.48431	408	311.94025
9	6.88104	109	83.33698	209	159.79292	309	236.24887	409	312.70481
10	7.64559	110	84.10154	210	160.55748	310	237.01343	410	313.46937
11	8.41015	111	84.86610	211	161.32204	311	237.77799	411	314.23393
12	9.17471	112	85.63066	212	162.08660	312	238.54255	412	314.99849
13	9.93927	113	86.39522	213	162.85116	313	239.30711	413	315.76305
14	10.70383	114	87.15978	214	163.61572	314	240.07167	414	316.52761
15	11.46839	115	87.92434	215	164.38028	315	240.83623	415	317.29217
16	12.23295	116	88.68890	216	165.14484	316	241.60078	416	318.05673
17	12.99751	117	89.45346	217	165.90940	317	242.36534	417	318.82129
18	13.76207	118	90.21801	218	166.67396	318	243.12990	418	319.58585
19	14.52663	119	90.98257	219	167.43852	319	243.89446	419	320.35041
20	15.29119	120	91.74713	220	168.20308	320	244.65902	420	321.11497
21	16.05575	121	92.51169	221	168.96764	321	245.42358	421	321.87953
22	16.82031	122	93.27625	222	169.73220	322	246.18814	422	322.64409
23	17.58487	123	94.04081	223	170.49676	323	246.95270	423	323.40865
24	18.34943	124	94.80537	224	171.26132	324	247.71726	424	324.17320
25	19.11399	125	95.56993	225	172.02588	325	248.48182	425	324.93776
26	19.87855	126	96.33449	226	172.79043	326	249.24638	426	325.70232
27	20.64311	127	97.09905	227	173.55499	327	250.01094	427	326.46688
28	21.40766	128	97.86361	228	174.31955	328	250.77550	428	327.23144
29	22.17222	129	98.62817	229	175.08411	329	251.54006	429	327.99600
30	22.93678	130	99.39273	230	175.84867	330	252.30462	430	328.76056
31	23.70134	131	100.15729	231	176.61323	331	253.06918	431	329.52512
32	24.46590	132	100.92185	232	177.37779	332	253.83374	432	330.28968
33	25.23046	133	101.68641	233	178.14235	333	254.59830	433	331.05424
34	25.99502	134	102.45097	234	178.90691	334	255.36285	434	331.81880
35	26.75958	135	103.21553	235	179.67147	335	256.12741	435	332.58336
36	27.52414	136	103.98009	236	180.43603	336	256.89197	436	333.34792
37	28.28870	137	104.74465	237	181.20059	337	257.65653	437	334.11248
38	29.05326	138	105.50920	238	181.96515	338	258.42109	438	334.87704
39	29.81782	139	106.27376	239	182.72971	339	259.18565	439	335.64160
40	30.58238	140	107.03832	240	183.49427	340	259.95021	440	336.40616
41	31.34694	141	107.80288	241	184.25883	341	260.71477	441	337.17072
42	32.11150	142	108.56744	242	185.02339	342	261.47933	442	337.93527
43	32.87606	143	109.33200	243	185.78795	343	262.24389	443	338.69983
44	33.64062	144	110.09656	244	186.55250	344	263.00845	444	339.46439
45	34.40518	145	110.86112	245	187.31706	345	263.77301	445	340.22895
46	35.16973	146	111.62568	246	188.08162	346	264.53757	446	340.99351
47	35.93429	147	112.39024	247	188.84618	347	265.30213	447	341.75807
48	36.69885	148	113.15480	248	189.61074	348	266.06669	448	342.52263
49	37.46341	149	113.91936	249	190.37530	349	266.83125	449	343.28719

Upper band (500–949)

Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters
500	382.27972	600	458.73567	700	535.19161	800	611.64756	900	688.10350
501	383.04428	601	459.50023	701	535.95617	801	612.41212	901	688.86806
502	383.80884	602	460.26479	702	536.72073	802	613.17668	902	689.63262
503	384.57340	603	461.02935	703	537.48529	803	613.94123	903	690.39718
504	385.33796	604	461.79390	704	538.24985	804	614.70579	904	691.16174
505	386.10252	605	462.55846	705	539.01441	805	615.47035	905	691.92630
506	386.86708	606	463.32302	706	539.77897	806	616.23491	906	692.69086
507	387.63164	607	464.08758	707	540.54353	807	616.99947	907	693.45542
508	388.39620	608	464.85214	708	541.30809	808	617.76403	908	694.21998
509	389.16076	609	465.61670	709	542.07265	809	618.52859	909	694.98454
510	389.92532	610	466.38126	710	542.83721	810	619.29315	910	695.74910
511	390.68988	611	467.14582	711	543.60177	811	620.05771	911	696.51365
512	391.45444	612	467.91038	712	544.36633	812	620.82227	912	697.27821
513	392.21900	613	468.67494	713	545.13088	813	621.58683	913	698.04277
514	392.98355	614	469.43950	714	545.89544	814	622.35139	914	698.80733
515	393.74811	615	470.20406	715	546.66000	815	623.11595	915	699.57189
516	394.51267	616	470.96862	716	547.42456	816	623.88051	916	700.33645
517	395.27723	617	471.73318	717	548.18912	817	624.64507	917	701.10101
518	396.04179	618	472.49774	718	548.95368	818	625.40963	918	701.86557
519	396.80635	619	473.26230	719	549.71824	819	626.17419	919	702.63013
520	397.57091	620	474.02686	720	550.48280	820	626.93875	920	703.39469
521	398.33547	621	474.79142	721	551.24736	821	627.70330	921	704.15925
522	399.10003	622	475.55597	722	552.01192	822	628.46786	922	704.92381
523	399.86459	623	476.32053	723	552.77648	823	629.23242	923	705.68837
524	400.62915	624	477.08509	724	553.54104	824	629.99698	924	706.45293
525	401.39371	625	477.84965	725	554.30560	825	630.76154	925	707.21749
526	402.15827	626	478.61421	726	555.07016	826	631.52610	926	707.98205
527	402.92283	627	479.37877	727	555.83472	827	632.29066	927	708.74661
528	403.68739	628	480.14333	728	556.59928	828	633.05522	928	709.51117
529	404.45195	629	480.90789	729	557.36384	829	633.81978	929	710.27572
530	405.21651	630	481.67245	730	558.12840	830	634.58434	930	711.04028
531	405.98107	631	482.43701	731	558.89295	831	635.34890	931	711.80484
532	406.74562	632	483.20157	732	559.65751	832	636.11346	932	712.56940
533	407.51018	633	483.96613	733	560.42207	833	636.87802	933	713.33396
534	408.27474	634	484.73069	734	561.18663	834	637.64258	934	714.09852
535	409.03930	635	485.49525	735	561.95119	835	638.40714	935	714.86308
536	409.80386	636	486.25981	736	562.71575	836	639.17170	936	715.62764
537	410.56842	637	487.02437	737	563.48031	837	639.93626	937	716.39220
538	411.33298	638	487.78893	738	564.24487	838	640.70082	938	717.15676
539	412.09754	639	488.55349	739	565.00943	839	641.46537	939	717.92132
540	412.86210	640	489.31804	740	565.77399	840	642.22993	940	718.68588
541	413.62666	641	490.08260	741	566.53855	841	642.99449	941	719.45044
542	414.39122	642	490.84716	742	567.30311	842	643.75905	942	720.21500
543	415.15578	643	491.61172	743	568.06767	843	644.52361	943	720.97956
544	415.92034	644	492.37628	744	568.83223	844	645.28817	944	721.74412
545	416.68490	645	493.14084	745	569.59679	845	646.05273	945	722.50868
546	417.44946	646	493.90540	746	570.36135	846	646.81729	946	723.27324
547	418.21402	647	494.66996	747	571.12591	847	647.58185	947	724.03779
548	418.97858	648	495.43452	748	571.89047	848	648.34641	948	724.80235
549	419.74314	649	496.19908	749	572.65502	849	649.11097	949	725.56691

50 38.22797	**150** 114.68392	**250** 191.13986	**350** 267.59581	**450** 344.05175	**550** 420.50769	**650** 496.96364	**750** 573.41958	**850** 649.87553	**950** 726.33147
1 38.99253	1 115.44848	1 191.90442	1 268.36037	1 344.81631	1 421.27225	1 497.72820	1 574.18414	1 650.64009	1 727.09603
2 39.75709	2 116.21304	2 192.66898	2 269.12492	2 345.58087	2 422.03681	2 498.49276	2 574.94870	2 651.40465	2 727.86059
3 40.52165	3 116.97760	3 193.43354	3 269.88948	3 346.34543	3 422.80137	3 499.25732	3 575.71326	3 652.16921	3 728.62515
4 41.28621	4 117.74215	4 194.19810	4 270.65404	4 347.10999	4 423.56593	4 500.02188	4 576.47782	4 652.93377	4 729.38971
5 42.05077	5 118.50671	5 194.96266	5 271.41860	5 347.87455	5 424.33049	5 500.78644	5 577.24238	5 653.69833	5 730.15427
6 42.81533	6 119.27127	6 195.72722	6 272.18316	6 348.63911	6 425.09505	6 501.55100	6 578.00694	6 654.46289	6 730.91883
7 43.57989	7 120.03583	7 196.49178	7 272.94772	7 349.40367	7 425.85961	7 502.31556	7 578.77150	7 655.22744	7 731.68339
8 44.34445	8 120.80039	8 197.25634	8 273.71228	8 350.16823	8 426.62417	8 503.08012	8 579.53606	8 655.99200	8 732.44795
9 45.10901	9 121.56495	9 198.02090	9 274.47684	9 350.93279	9 427.38873	9 503.84467	9 580.30062	9 656.75656	9 733.21251
60 45.87357	**160** 122.32951	**260** 198.78546	**360** 275.24140	**460** 351.69734	**560** 428.15329	**660** 504.60923	**760** 581.06518	**860** 657.52112	**960** 733.97707
1 46.63813	1 123.09407	1 199.55002	1 276.00596	1 352.46190	1 428.91785	1 505.37379	1 581.82974	1 658.28568	1 734.74163
2 47.40269	2 123.85863	2 200.31457	2 276.77052	2 353.22646	2 429.68241	2 506.13835	2 582.59430	2 659.05024	2 735.50619
3 48.16725	3 124.62319	3 201.07913	3 277.53508	3 353.99102	3 430.44697	3 506.90291	3 583.35886	3 659.81480	3 736.27075
4 48.93180	4 125.38775	4 201.84369	4 278.29964	4 354.75558	4 431.21153	4 507.66747	4 584.12342	4 660.57936	4 737.03531
5 49.69636	5 126.15231	5 202.60825	5 279.06420	5 355.52014	5 431.97609	5 508.43203	5 584.88798	5 661.34392	5 737.79986
6 50.46092	6 126.91687	6 203.37281	6 279.82876	6 356.28470	6 432.74065	6 509.19659	6 585.65254	6 662.10848	6 738.56442
7 51.22548	7 127.68143	7 204.13737	7 280.59332	7 357.04926	7 433.50521	7 509.96115	7 586.41709	7 662.87304	7 739.32898
8 51.99004	8 128.44599	8 204.90193	8 281.35788	8 357.81382	8 434.26976	8 510.72571	8 587.18165	8 663.63760	8 740.09354
9 52.75460	9 129.21055	9 205.66649	9 282.12244	9 358.57838	9 435.03432	9 511.49027	9 587.94621	9 664.40216	9 740.85810
70 53.51916	**170** 129.97511	**270** 206.43105	**370** 282.88699	**470** 359.34294	**570** 435.79888	**670** 512.25483	**770** 588.71077	**870** 665.16672	**970** 741.62266
1 54.28372	1 130.73967	1 207.19561	1 283.63155	1 360.10750	1 436.56344	1 513.01939	1 589.47533	1 665.93128	1 742.38722
2 55.04828	2 131.50422	2 207.96017	2 284.41611	2 360.87206	2 437.32800	2 513.78395	2 590.23989	2 666.69584	2 743.15178
3 55.81284	3 132.26878	3 208.72473	3 285.18067	3 361.63662	3 438.09256	3 514.54851	3 591.00445	3 667.46040	3 743.91634
4 56.57740	4 133.03334	4 209.48929	4 285.94523	4 362.40118	4 438.85712	4 515.31307	4 591.76901	4 668.22496	4 744.68090
5 57.34196	5 133.79790	5 210.25385	5 286.70979	5 363.16574	5 439.62168	5 516.07763	5 592.53357	5 668.98951	5 745.44546
6 58.10652	6 134.56246	6 211.01841	6 287.47435	6 363.93030	6 440.38624	6 516.84219	6 593.29813	6 669.75407	6 746.21002
7 58.87103	7 135.32702	7 211.78297	7 288.23891	7 364.69486	7 441.15080	7 517.60674	7 594.06269	7 670.51863	7 746.97458
8 59.63564	8 136.09158	8 212.54753	8 289.00347	8 365.45941	8 441.91536	8 518.37130	8 594.82725	8 671.28319	8 747.73914
9 60.40020	9 136.85614	9 213.31209	9 289.76803	9 366.22397	9 442.67992	9 519.13586	9 595.59181	9 672.04775	9 748.50370
80 61.16476	**180** 137.62070	**280** 214.07664	**380** 290.53259	**480** 366.98853	**580** 443.44448	**680** 519.90042	**780** 596.35637	**880** 672.81231	**980** 749.26826
1 61.92932	1 138.38526	1 214.84120	1 291.29715	1 367.75309	1 444.20904	1 520.66498	1 597.12093	1 673.57687	1 750.03282
2 62.69387	2 139.14982	2 215.60576	2 292.06171	2 368.51765	2 444.97360	2 521.42954	2 597.88549	2 674.34143	2 750.79738
3 63.45843	3 139.91438	3 216.37032	3 292.82627	3 369.28221	3 445.73816	3 522.19410	3 598.65005	3 675.10599	3 751.56193
4 64.22299	4 140.67894	4 217.13488	4 293.59083	4 370.04677	4 446.50272	4 522.95866	4 599.41461	4 675.87055	4 752.32649
5 64.98755	5 141.44350	5 217.89944	5 294.35539	5 370.81133	5 447.26728	5 523.72322	5 600.17916	5 676.63511	5 753.09105
6 65.75211	6 142.20806	6 218.66400	6 295.11995	6 371.57589	6 448.03183	6 524.48778	6 600.94372	6 677.39967	6 753.85561
7 66.51667	7 142.97262	7 219.42856	7 295.88451	7 372.34045	7 448.79639	7 525.25234	7 601.70828	7 678.16423	7 754.62017
8 67.28123	8 143.73718	8 220.19312	8 296.64906	8 373.10501	8 449.56095	8 526.01690	8 602.47284	8 678.92879	8 755.38473
9 68.04579	9 144.50174	9 220.95768	9 297.41362	9 373.86957	9 450.32551	9 526.78146	9 603.23740	9 679.69335	9 756.14929
90 68.81035	**190** 145.26629	**290** 221.72224	**390** 298.17818	**490** 374.63413	**590** 451.09007	**690** 527.54602	**790** 604.00196	**890** 680.45791	**990** 756.91385
1 69.57491	1 146.03085	1 222.48680	1 298.94274	1 375.39869	1 451.85463	1 528.31058	1 604.76652	1 681.22247	1 757.67841
2 70.33947	2 146.79541	2 223.25136	2 299.70730	2 376.16325	2 452.61919	2 529.07514	2 605.53108	2 681.98703	2 758.44297
3 71.10403	3 147.55997	3 224.01592	3 300.47186	3 376.92781	3 453.38375	3 529.83970	3 606.29564	3 682.75158	3 759.20753
4 71.86859	4 148.32453	4 224.78048	4 301.23642	4 377.69237	4 454.14831	4 530.60426	4 607.06020	4 683.51614	4 759.97209
5 72.63315	5 149.08909	5 225.54504	5 302.00098	5 378.45693	5 454.91287	5 531.36881	5 607.82476	5 684.28070	5 760.73665
6 73.39771	6 149.85365	6 226.30960	6 302.76554	6 379.22148	6 455.67743	6 532.13337	6 608.58932	6 685.04526	6 761.50121
7 74.16227	7 150.61821	7 227.07416	7 303.53010	7 379.98604	7 456.44199	7 532.89793	7 609.35388	7 685.80982	7 762.26577
8 74.92683	8 151.38277	8 227.83871	8 304.29466	8 380.75060	8 457.20655	8 533.66249	8 610.11844	8 686.57438	8 763.03033
9 75.69139	9 152.14733	9 228.60327	9 305.05922	9 381.51516	9 457.97111	9 534.42705	9 610.88300	9 687.33894	9 763.79489

Circular of the Bureau of Standards

VOLUME—CUBIC METERS TO CUBIC YARDS

[Reduction factor: 1 cubic meter = 1.30794277 cubic yards]

Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards	Cubic meters	Cubic yards
0		100	130.79428	200	261.58855	300	392.38283	400	523.17711	500	653.97139	600	784.76566	700	915.55994	800	1,046.35422	900	1,177.14849
1	1.30794	1	132.10222	1	262.89650	1	393.69077	1	524.48505	1	655.27933	1	786.07361	1	916.86788	1	1,047.66216	1	1,178.45644
2	2.61589	2	133.41016	2	264.20444	2	394.99872	2	525.79299	2	656.58727	2	787.38155	2	918.17583	2	1,048.97010	2	1,179.76438
3	3.92383	3	134.71811	3	265.51238	3	396.30666	3	527.10094	3	657.89521	3	788.68949	3	919.48377	3	1,050.27805	3	1,181.07232
4	5.23177	4	136.02605	4	266.82033	4	397.61460	4	528.40888	4	659.20316	4	789.99743	4	920.79171	4	1,051.58599	4	1,182.38027
5	6.53971	5	137.33399	5	268.12827	5	398.92255	5	529.71682	5	660.51110	5	791.30538	5	922.09965	5	1,052.89393	5	1,183.68821
6	7.84766	6	138.64193	6	269.43621	6	400.23049	6	531.02477	6	661.81904	6	792.61332	6	923.40760	6	1,054.20187	6	1,184.99615
7	9.15560	7	139.94988	7	270.74415	7	401.53843	7	532.33271	7	663.12699	7	793.92126	7	924.71554	7	1,055.50982	7	1,186.30409
8	10.46354	8	141.25782	8	272.05210	8	402.84637	8	533.64065	8	664.43493	8	795.22921	8	926.02348	8	1,056.81776	8	1,187.61204
9	11.77148	9	142.56576	9	273.36004	9	404.15432	9	534.94859	9	665.74287	9	796.53715	9	927.33143	9	1,058.12570	9	1,188.91998
10	13.07943	110	143.87370	210	274.66798	310	405.46226	410	536.25654	510	667.05081	610	797.84509	710	928.63937	810	1,059.43365	910	1,190.22792
1	14.38737	1	145.18165	1	275.97592	1	406.77020	1	537.56448	1	668.35876	1	799.15303	1	929.94731	1	1,060.74159	1	1,191.53587
2	15.69531	2	146.48959	2	277.28387	2	408.07814	2	538.87242	2	669.66670	2	800.46098	2	931.25525	2	1,062.04953	2	1,192.84381
3	17.00326	3	147.79753	3	278.59181	3	409.38609	3	540.18036	3	670.97464	3	801.76892	3	932.56320	3	1,063.35747	3	1,194.15175
4	18.31120	4	149.10548	4	279.89975	4	410.69403	4	541.48831	4	672.28258	4	803.07686	4	933.87114	4	1,064.66542	4	1,195.45969
5	19.61914	5	150.41342	5	281.20770	5	412.00197	5	542.79625	5	673.59053	5	804.38480	5	935.17908	5	1,065.97336	5	1,196.76764
6	20.92708	6	151.72136	6	282.51564	6	413.30992	6	544.10419	6	674.89847	6	805.69275	6	936.48702	6	1,067.28130	6	1,198.07558
7	22.23503	7	153.02930	7	283.82358	7	414.61786	7	545.41214	7	676.20641	7	807.00069	7	937.79497	7	1,068.58924	7	1,199.38352
8	23.54297	8	154.33725	8	285.13152	8	415.92580	8	546.72008	8	677.51436	8	808.30863	8	939.10291	8	1,069.89719	8	1,200.69146
9	24.85091	9	155.64519	9	286.43947	9	417.23374	9	548.02802	9	678.82230	9	809.61658	9	940.41085	9	1,071.20513	9	1,201.99941
20	26.15886	120	156.95313	220	287.74741	320	418.54169	420	549.33596	520	680.13024	620	810.92452	720	941.71880	820	1,072.51307	920	1,203.30735
1	27.46680	1	158.26108	1	289.05535	1	419.84963	1	550.64391	1	681.43818	1	812.23246	1	943.02674	1	1,073.82102	1	1,204.61529
2	28.77474	2	159.56902	2	290.36330	2	421.15757	2	551.95185	2	682.74613	2	813.54040	2	944.33468	2	1,075.12896	2	1,205.92324
3	30.08268	3	160.87696	3	291.67124	3	422.46552	3	553.25979	3	684.05407	3	814.84835	3	945.64262	3	1,076.43690	3	1,207.23118
4	31.39063	4	162.18490	4	292.97918	4	423.77346	4	554.56774	4	685.36201	4	816.15629	4	946.95057	4	1,077.74484	4	1,208.53912
5	32.69857	5	163.49285	5	294.28712	5	425.08140	5	555.87568	5	686.66996	5	817.46423	5	948.25851	5	1,079.05279	5	1,209.84706
6	34.00651	6	164.80079	6	295.59507	6	426.38935	6	557.18362	6	687.97790	6	818.77218	6	949.56645	6	1,080.36073	6	1,211.15501
7	35.31445	7	166.10873	7	296.90301	7	427.69729	7	558.49156	7	689.28584	7	820.08012	7	950.87440	7	1,081.66867	7	1,212.46295
8	36.62240	8	167.41667	8	298.21095	8	429.00523	8	559.79951	8	690.59378	8	821.38806	8	952.18234	8	1,082.97662	8	1,213.77089
9	37.93034	9	168.72462	9	299.51889	9	430.31317	9	561.10745	9	691.90173	9	822.69600	9	953.49028	9	1,084.28456	9	1,215.07884
30	39.23828	130	170.03256	230	300.82684	330	431.62111	430	562.41539	530	693.20967	630	824.00395	730	954.79822	830	1,085.59250	930	1,216.38678
1	40.54623	1	171.34050	1	302.13478	1	432.92906	1	563.72333	1	694.51761	1	825.31189	1	956.10617	1	1,086.90044	1	1,217.69472
2	41.85417	2	172.64845	2	303.44272	2	434.23700	2	565.03128	2	695.82555	2	826.61983	2	957.41411	2	1,088.20839	2	1,219.00266
3	43.16211	3	173.95639	3	304.75067	3	435.54494	3	566.33922	3	697.13350	3	827.92777	3	958.72205	3	1,089.51633	3	1,220.31061
4	44.47005	4	175.26433	4	306.05861	4	436.85289	4	567.64716	4	698.44144	4	829.23572	4	960.02999	4	1,090.82427	4	1,221.61855
5	45.77800	5	176.57227	5	307.36655	5	438.16083	5	568.95511	5	699.74938	5	830.54365	5	961.33794	5	1,092.13221	5	1,222.92649
6	47.08594	6	177.88022	6	308.67449	6	439.46877	6	570.26305	6	701.05733	6	831.85160	6	962.64588	6	1,093.44016	6	1,224.23443
7	48.39388	7	179.18816	7	309.98244	7	440.77671	7	571.57099	7	702.36527	7	833.15955	7	963.95382	7	1,094.74810	7	1,225.54238
8	49.70183	8	180.49610	8	311.29038	8	442.08466	8	572.87893	8	703.67321	8	834.46749	8	965.26177	8	1,096.05604	8	1,226.85032
9	51.00977	9	181.80405	9	312.59832	9	443.39260	9	574.18688	9	704.98115	9	835.77543	9	966.56971	9	1,097.36399	9	1,228.15825
40	52.31771	140	183.11199	240	313.90627	340	444.70054	440	575.49482	540	706.28910	640	837.08337	740	967.87765	840	1,098.67193	940	1,229.46621
1	53.62565	1	184.41993	1	315.21421	1	446.00849	1	576.80276	1	707.59704	1	838.39132	1	969.18559	1	1,099.97987	1	1,230.77415
2	54.93360	2	185.72787	2	316.52215	2	447.31643	2	578.11071	2	708.90498	2	839.69926	2	970.49354	2	1,101.28781	2	1,232.08209
3	56.24154	3	187.03582	3	317.83009	3	448.62437	3	579.41865	3	710.21293	3	841.00720	3	971.80148	3	1,102.59576	3	1,233.39003
4	57.54948	4	188.34376	4	319.13804	4	449.93231	4	580.72659	4	711.52087	4	842.31515	4	973.10942	4	1,103.90370	4	1,234.69798
5	58.85742	5	189.65170	5	320.44598	5	451.24026	5	582.03453	5	712.82881	5	843.62309	5	974.41737	5	1,105.21164	5	1,236.00592
6	60.16537	6	190.95964	6	321.75392	6	452.54820	6	583.34248	6	714.13675	6	844.93103	6	975.72531	6	1,106.51959	6	1,237.31386
7	61.47331	7	192.26759	7	323.06186	7	453.85614	7	584.65042	7	715.44470	7	846.23897	7	977.03325	7	1,107.82753	7	1,238.62181
8	62.78125	8	193.57553	8	324.36981	8	455.16408	8	585.95836	8	716.75264	8	847.54692	8	978.34119	8	1,109.13547	8	1,239.92975
9	64.08920	9	194.88347	9	325.67775	9	456.47203	9	587.26630	9	718.06058	9	848.85486	9	979.64914	9	1,110.44341	9	1,241.23769

This page consists entirely of dense numerical tables of equivalents arranged in columnar blocks headed by the values 950, 850, 750, 650, 550, 450, 350, 250, 150, 50 (upper portion) and 960, 860, 760, 660, 570, 460, 370, 260, 170, 70 / 980, 880, 780, 680, 580, 480, 380, 280, 180, 80 / 990, 890, 790, 690, 590, 490, 390, 290, 190, 90, etc., each followed by sub-rows numbered 1–9 with six-decimal equivalent values.

CAPACITY—LIQUID QUARTS TO LITERS

[Reduction factor: 1 liquid quart=0.9463307 liter]

Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters
0		100	94.633	200	189.267	300	283.900	400	378.533	500	473.167	600	567.800	700	662.433	800	757.066	900	851.700
1	0.9463	101	95.580	201	190.213	301	284.846	401	379.480	501	474.113	601	568.746	701	663.379	801	758.013	901	852.646
2	1.8927	102	96.526	202	191.159	302	285.793	402	380.426	502	475.059	602	569.693	702	664.326	802	758.959	902	853.592
3	2.8390	103	97.472	203	192.106	303	286.739	403	381.372	503	476.006	603	570.639	703	665.272	803	759.905	903	854.539
4	3.7853	104	98.419	204	193.052	304	287.685	404	382.319	504	476.952	604	571.585	704	666.218	804	760.852	904	855.485
5	4.7317	105	99.365	205	193.998	305	288.632	405	383.265	505	477.898	605	572.532	705	667.165	805	761.798	905	856.431
6	5.6780	106	100.311	206	194.945	306	289.578	406	384.211	506	478.845	606	573.478	706	668.111	806	762.744	906	857.378
7	6.6243	107	101.258	207	195.891	307	290.524	407	385.158	507	479.791	607	574.424	707	669.057	807	763.691	907	858.324
8	7.5707	108	102.204	208	196.837	308	291.471	408	386.104	508	480.737	608	575.371	708	670.004	808	764.637	908	859.270
9	8.5170	109	103.150	209	197.784	309	292.417	409	387.050	509	481.684	609	576.317	709	670.950	809	765.583	909	860.217
10	9.4633	110	104.097	210	198.730	310	293.363	410	387.997	510	482.630	610	577.263	710	671.896	810	766.530	910	861.163
11	10.4097	111	105.043	211	199.676	311	294.310	411	388.943	511	483.576	611	578.210	711	672.843	811	767.476	911	862.109
12	11.3560	112	105.989	212	200.623	312	295.256	412	389.889	512	484.523	612	579.156	712	673.789	812	768.422	912	863.056
13	12.3023	113	106.936	213	201.569	313	296.202	413	390.836	513	485.469	613	580.102	713	674.735	813	769.369	913	864.002
14	13.2487	114	107.882	214	202.515	314	297.149	414	391.782	514	486.415	614	581.049	714	675.682	814	770.315	914	864.948
15	14.1950	115	108.828	215	203.462	315	298.095	415	392.728	515	487.362	615	581.995	715	676.628	815	771.261	915	865.895
16	15.1413	116	109.775	216	204.408	316	299.041	416	393.675	516	488.308	616	582.941	716	677.574	816	772.208	916	866.841
17	16.0877	117	110.721	217	205.354	317	299.988	417	394.621	517	489.254	617	583.888	717	678.521	817	773.154	917	867.787
18	17.0340	118	111.667	218	206.301	318	300.934	418	395.567	518	490.201	618	584.834	718	679.467	818	774.100	918	868.734
19	17.9803	119	112.614	219	207.247	319	301.880	419	396.514	519	491.147	619	585.780	719	680.413	819	775.047	919	869.680
20	18.9267	120	113.560	220	208.193	320	302.827	420	397.460	520	492.093	620	586.727	720	681.360	820	775.993	920	870.626
21	19.8730	121	114.506	221	209.140	321	303.773	421	398.406	521	493.040	621	587.673	721	682.306	821	776.939	921	871.573
22	20.8193	122	115.453	222	210.086	322	304.719	422	399.353	522	493.986	622	588.619	722	683.252	822	777.886	922	872.519
23	21.7657	123	116.399	223	211.032	323	305.666	423	400.299	523	494.932	623	589.566	723	684.199	823	778.832	923	873.465
24	22.7120	124	117.345	224	211.979	324	306.612	424	401.245	524	495.879	624	590.512	724	685.145	824	779.778	924	874.412
25	23.6583	125	118.292	225	212.925	325	307.558	425	402.192	525	496.825	625	591.458	725	686.091	825	780.725	925	875.358
26	24.6047	126	119.238	226	213.871	326	308.505	426	403.138	526	497.771	626	592.405	726	687.038	826	781.671	926	876.304
27	25.5510	127	120.184	227	214.818	327	309.451	427	404.084	527	498.718	627	593.351	727	687.984	827	782.617	927	877.251
28	26.4973	128	121.131	228	215.764	328	310.397	428	405.031	528	499.664	628	594.297	728	688.930	828	783.564	928	878.197
29	27.4437	129	122.077	229	216.710	329	311.344	429	405.977	529	500.610	629	595.244	729	689.877	829	784.510	929	879.143
30	28.3900	130	123.023	230	217.657	330	312.290	430	406.923	530	501.557	630	596.190	730	690.823	830	785.456	930	880.090
31	29.3363	131	123.970	231	218.603	331	313.236	431	407.870	531	502.503	631	597.136	731	691.769	831	786.403	931	881.036
32	30.2827	132	124.916	232	219.549	332	314.183	432	408.816	532	503.449	632	598.083	732	692.716	832	787.349	932	881.982
33	31.1290	133	125.862	233	220.496	333	315.129	433	409.762	533	504.396	633	599.029	733	693.662	833	788.295	933	882.929
34	32.1753	134	126.809	234	221.442	334	316.075	434	410.709	534	505.342	634	599.975	734	694.608	834	789.242	934	883.875
35	33.1217	135	127.755	235	222.388	335	317.022	435	411.655	535	506.288	635	600.922	735	695.555	835	790.188	935	884.821
36	34.0680	136	128.701	236	223.335	336	317.968	436	412.601	536	507.235	636	601.868	736	696.501	836	791.134	936	885.768
37	35.0143	137	129.648	237	224.281	337	318.914	437	413.548	537	508.181	637	602.814	737	697.447	837	792.081	937	886.714
38	35.9607	138	130.594	238	225.227	338	319.861	438	414.494	538	509.127	638	603.761	738	698.394	838	793.027	938	887.660
39	36.9070	139	131.540	239	226.174	339	320.807	439	415.440	539	510.074	639	604.707	739	699.340	839	793.973	939	888.607
40	37.8533	140	132.487	240	227.120	340	321.753	440	416.387	540	511.020	640	605.653	740	700.286	840	794.920	940	889.553
41	38.7997	141	133.433	241	228.066	341	322.700	441	417.333	541	511.966	641	606.599	741	701.233	841	795.866	941	890.499
42	39.7460	142	134.379	242	229.013	342	323.646	442	418.279	542	512.913	642	607.546	742	702.179	842	796.812	942	891.446
43	40.6923	143	135.326	243	229.959	343	324.592	443	419.226	543	513.859	643	608.492	743	703.125	843	797.759	943	892.392
44	41.6387	144	136.272	244	230.905	344	325.539	444	420.172	544	514.805	644	609.438	744	704.072	844	798.705	944	893.338
45	42.5850	145	137.218	245	231.852	345	326.485	445	421.118	545	515.752	645	610.385	745	705.018	845	799.651	945	894.285
46	43.5313	146	138.165	246	232.798	346	327.431	446	422.065	546	516.698	646	611.331	746	705.964	846	800.598	946	895.231
47	44.4777	147	139.111	247	233.744	347	328.378	447	423.011	547	517.644	647	612.277	747	706.911	847	801.544	947	896.177
48	45.4240	148	140.057	248	234.691	348	329.324	448	423.957	548	518.591	648	613.224	748	707.857	848	802.490	948	897.124
49	46.3703	149	141.004	249	235.637	349	330.270	449	424.904	549	519.537	649	614.170	749	708.803	849	803.437	949	898.070

	50	60	70	80	90
0	47.3167	56.7800	66.2433	75.7066	85.1700
1	48.2630	57.7263	67.1896	76.6530	86.1163
2	49.2093	58.6727	68.1360	77.5993	87.0626
3	50.1557	59.6190	69.0823	78.5456	88.0090
4	51.1020	60.5653	70.0286	79.4920	88.9553
5	52.0483	61.5116	70.9750	80.4383	89.9016
6	52.9947	62.4580	71.9213	81.3846	90.8480
7	53.9410	63.4043	72.8676	82.3310	91.7943
8	54.8873	64.3506	73.8140	83.2773	92.7406
9	55.8337	65.2970	74.7603	84.2236	93.6870

	150	160	170	180	190
0	141.950	151.413	160.877	170.340	179.803
1	142.896	152.360	161.823	171.286	180.750
2	143.843	153.306	162.769	172.233	181.696
3	144.789	154.252	163.716	173.179	182.642
4	145.735	155.199	164.662	174.125	183.589
5	146.682	156.145	165.608	175.072	184.535
6	147.628	157.091	166.555	176.018	185.481
7	148.574	158.038	167.501	176.964	186.428
8	149.521	158.984	168.447	177.911	187.374
9	150.467	159.930	169.394	178.857	188.320

	250	260	270	280	290
0	236.583	246.047	255.510	264.973	274.437
1	237.530	246.993	256.456	265.920	275.383
2	238.476	247.939	257.403	266.866	276.329
3	239.422	248.886	258.349	267.812	277.276
4	240.369	249.832	259.295	268.759	278.222
5	241.315	250.778	260.242	269.705	279.168
6	242.261	251.725	261.188	270.651	280.115
7	243.208	252.671	262.134	271.598	281.061
8	244.154	253.617	263.081	272.544	282.007
9	245.100	254.564	264.027	273.490	282.954

	350	360	370	380	390
0	331.217	340.680	350.143	359.607	369.070
1	332.163	341.626	351.090	360.553	370.016
2	333.109	342.573	352.036	361.499	370.963
3	334.056	343.519	352.982	362.446	371.909
4	335.002	344.465	353.929	363.392	372.855
5	335.948	345.412	354.875	364.338	373.802
6	336.895	346.358	355.821	365.285	374.748
7	337.841	347.304	356.768	366.231	375.694
8	338.787	348.251	357.714	367.177	376.641
9	339.734	349.197	358.660	368.124	377.587

	450	460	470	480	490
0	425.850	435.313	444.777	454.240	463.703
1	426.796	436.260	445.723	455.186	464.650
2	427.743	437.206	446.669	456.133	465.596
3	428.689	438.152	447.616	457.079	466.542
4	429.635	439.099	448.562	458.025	467.489
5	430.582	440.045	449.508	458.972	468.435
6	431.528	440.991	450.455	459.918	469.381
7	432.474	441.938	451.401	460.864	470.328
8	433.421	442.884	452.347	461.811	471.274
9	434.367	443.830	453.294	462.757	472.220

	550	560	570	580	590
0	520.483	529.947	539.410	548.873	558.337
1	521.430	530.893	540.356	549.820	559.283
2	522.376	531.839	541.303	550.766	560.229
3	523.322	532.786	542.249	551.712	561.176
4	524.269	533.732	543.195	552.659	562.122
5	525.215	534.678	544.142	553.605	563.068
6	526.161	535.625	545.088	554.551	564.015
7	527.108	536.571	546.034	555.498	564.961
8	528.054	537.517	546.981	556.444	565.907
9	529.000	538.464	547.927	557.390	566.854

	650	660	670	680	690
0	615.116	624.580	634.043	643.506	652.970
1	616.063	625.526	634.989	644.453	653.916
2	617.009	626.472	635.936	645.399	654.862
3	617.955	627.419	636.882	646.345	655.809
4	618.902	628.365	637.828	647.292	656.755
5	619.848	629.311	638.775	648.238	657.701
6	620.794	630.258	639.721	649.184	658.648
7	621.741	631.204	640.667	650.131	659.594
8	622.687	632.150	641.614	651.077	660.540
9	623.633	633.097	642.560	652.023	661.487

	750	760	770	780	790
0	709.750	719.213	728.676	738.140	747.603
1	710.696	720.159	729.623	739.086	748.549
2	711.642	721.106	730.569	740.032	749.496
3	712.589	722.052	731.515	740.979	750.442
4	713.535	722.998	732.462	741.925	751.388
5	714.481	723.945	733.408	742.871	752.335
6	715.428	724.891	734.354	743.818	753.281
7	716.374	725.837	735.301	744.764	754.227
8	717.320	726.784	736.247	745.710	755.174
9	718.267	727.730	737.193	746.657	756.120

	850	860	870	880	890
0	804.383	813.846	823.310	832.773	842.236
1	805.329	814.793	824.256	833.719	843.183
2	806.276	815.739	825.202	834.666	844.129
3	807.222	816.685	826.149	835.612	845.075
4	808.168	817.632	827.095	836.558	846.022
5	809.115	818.578	828.041	837.505	846.968
6	810.061	819.524	828.988	838.451	847.914
7	811.007	820.471	829.934	839.397	848.861
8	811.954	821.417	830.880	840.344	849.807
9	812.900	822.363	831.827	841.290	850.753

	950	960	970	980	990
0	899.016	908.480	917.943	927.406	936.870
1	899.963	909.426	918.889	928.353	937.816
2	900.909	910.372	919.836	929.299	938.762
3	901.855	911.319	920.782	930.245	939.709
4	902.802	912.265	921.728	931.192	940.655
5	903.748	913.211	922.675	932.138	941.601
6	904.694	914.158	923.621	933.084	942.548
7	905.641	915.104	924.567	934.031	943.494
8	906.587	916.050	925.514	934.977	944.440
9	907.533	916.997	926.460	935.923	945.387

CAPACITY—LITERS TO LIQUID QUARTS

[Reduction factor: 1 liter = 1.0567104 quarts]

Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts	Liters	Liquid quarts
0		**100**	105.671	**200**	211.342	**300**	317.013	**400**	422.684	**500**	528.355	**600**	634.026	**700**	739.697	**800**	845.368	**900**	951.039
1	1.0567	1	106.728	1	212.399	1	318.070	1	423.741	1	529.412	1	635.083	1	740.754	1	846.425	1	952.096
2	2.1134	2	107.784	2	213.456	2	319.127	2	424.798	2	530.469	2	636.140	2	741.811	2	847.482	2	953.153
3	3.1701	3	108.841	3	214.512	3	320.183	3	425.854	3	531.525	3	637.196	3	742.867	3	848.538	3	954.209
4	4.2268	4	109.898	4	215.569	4	321.240	4	426.911	4	532.582	4	638.253	4	743.924	4	849.595	4	955.266
5	5.2836	5	110.955	5	216.626	5	322.297	5	427.968	5	533.639	5	639.310	5	744.981	5	850.652	5	956.323
6	6.3403	6	112.011	6	217.682	6	323.353	6	429.024	6	534.695	6	640.367	6	746.038	6	851.709	6	957.380
7	7.3970	7	113.068	7	218.739	7	324.410	7	430.081	7	535.752	7	641.423	7	747.094	7	852.765	7	958.436
8	8.4537	8	114.125	8	219.796	8	325.467	8	431.138	8	536.809	8	642.480	8	748.151	8	853.822	8	959.493
9	9.5104	9	115.181	9	220.852	9	326.524	9	432.195	9	537.866	9	643.537	9	749.208	9	854.879	9	960.550
10	10.5671	**110**	116.238	**210**	221.909	**310**	327.580	**410**	433.251	**510**	538.922	**610**	644.593	**710**	750.264	**810**	855.935	**910**	961.606
1	11.6238	1	117.295	1	222.966	1	328.637	1	434.308	1	539.979	1	645.650	1	751.321	1	856.992	1	962.663
2	12.6805	2	118.352	2	224.023	2	329.694	2	435.365	2	541.036	2	646.707	2	752.378	2	858.049	2	963.720
3	13.7372	3	119.408	3	225.079	3	330.750	3	436.421	3	542.092	3	647.763	3	753.435	3	859.106	3	964.777
4	14.7939	4	120.465	4	226.136	4	331.807	4	437.478	4	543.149	4	648.820	4	754.491	4	860.162	4	965.833
5	15.8507	5	121.522	5	227.193	5	332.864	5	438.535	5	544.206	5	649.877	5	755.548	5	861.219	5	966.890
6	16.9074	6	122.578	6	228.249	6	333.920	6	439.592	6	545.263	6	650.934	6	756.605	6	862.276	6	967.947
7	17.9641	7	123.635	7	229.306	7	334.977	7	440.648	7	546.319	7	651.990	7	757.661	7	863.332	7	969.003
8	19.0208	8	124.692	8	230.363	8	336.034	8	441.705	8	547.376	8	653.047	8	758.718	8	864.389	8	970.060
9	20.0775	9	125.749	9	231.420	9	337.091	9	442.762	9	548.433	9	654.104	9	759.775	9	865.446	9	971.117
20	21.1342	**120**	126.805	**220**	232.476	**320**	338.147	**420**	443.818	**520**	549.489	**620**	655.160	**720**	760.831	**820**	866.503	**920**	972.174
1	22.1909	1	127.862	1	233.533	1	339.204	1	444.875	1	550.546	1	656.217	1	761.888	1	867.559	1	973.230
2	23.2476	2	128.919	2	234.590	2	340.261	2	445.932	2	551.603	2	657.274	2	762.945	2	868.616	2	974.287
3	24.3043	3	129.975	3	235.646	3	341.317	3	446.988	3	552.660	3	658.331	3	764.002	3	869.673	3	975.344
4	25.3610	4	131.032	4	236.703	4	342.374	4	448.045	4	553.716	4	659.387	4	765.058	4	870.729	4	976.400
5	26.4178	5	132.089	5	237.760	5	343.431	5	449.102	5	554.773	5	660.444	5	766.115	5	871.786	5	977.457
6	27.4745	6	133.146	6	238.817	6	344.488	6	450.159	6	555.830	6	661.501	6	767.172	6	872.843	6	978.514
7	28.5312	7	134.202	7	239.873	7	345.544	7	451.215	7	556.886	7	662.557	7	768.228	7	873.900	7	979.571
8	29.5879	8	135.259	8	240.930	8	346.601	8	452.272	8	557.943	8	663.614	8	769.285	8	874.956	8	980.627
9	30.6446	9	136.316	9	241.987	9	347.658	9	453.329	9	559.000	9	664.671	9	770.342	9	876.013	9	981.684
30	31.7013	**130**	137.372	**230**	243.043	**330**	348.714	**430**	454.385	**530**	560.057	**630**	665.728	**730**	771.399	**830**	877.070	**930**	982.741
1	32.7580	1	138.429	1	244.100	1	349.771	1	455.442	1	561.113	1	666.784	1	772.455	1	878.126	1	983.797
2	33.8147	2	139.486	2	245.157	2	350.828	2	456.499	2	562.170	2	667.841	2	773.512	2	879.183	2	984.854
3	34.8714	3	140.542	3	246.214	3	351.885	3	457.556	3	563.227	3	668.898	3	774.569	3	880.240	3	985.911
4	35.9282	4	141.599	4	247.270	4	352.941	4	458.612	4	564.283	4	669.954	4	775.625	4	881.296	4	986.968
5	36.9849	5	142.656	5	248.327	5	353.998	5	459.669	5	565.340	5	671.011	5	776.682	5	882.353	5	988.024
6	38.0416	6	143.713	6	249.384	6	355.055	6	460.726	6	566.397	6	672.068	6	777.739	6	883.410	6	989.081
7	39.0983	7	144.769	7	250.440	7	356.111	7	461.782	7	567.453	7	673.125	7	778.796	7	884.467	7	990.138
8	40.1550	8	145.826	8	251.497	8	357.168	8	462.839	8	568.510	8	674.181	8	779.852	8	885.523	8	991.194
9	41.2117	9	146.883	9	252.554	9	358.225	9	463.896	9	569.567	9	675.238	9	780.909	9	886.580	9	992.251
40	42.2684	**140**	147.939	**240**	253.610	**340**	359.282	**440**	464.953	**540**	570.624	**640**	676.295	**740**	781.966	**840**	887.637	**940**	993.308
1	43.3251	1	148.996	1	254.667	1	360.338	1	466.009	1	571.680	1	677.351	1	783.022	1	888.693	1	994.364
2	44.3818	2	150.053	2	255.724	2	361.395	2	467.066	2	572.737	2	678.408	2	784.079	2	889.750	2	995.421
3	45.4385	3	151.110	3	256.781	3	362.452	3	468.123	3	573.794	3	679.465	3	785.136	3	890.807	3	996.478
4	46.4953	4	152.166	4	257.837	4	363.508	4	469.179	4	574.850	4	680.521	4	786.193	4	891.864	4	997.535
5	47.5520	5	153.223	5	258.894	5	364.565	5	470.236	5	575.907	5	681.578	5	787.249	5	892.920	5	998.591
6	48.6087	6	154.280	6	259.951	6	365.622	6	471.293	6	576.964	6	682.635	6	788.306	6	893.977	6	999.648
7	49.6654	7	155.336	7	261.007	7	366.679	7	472.350	7	578.021	7	683.692	7	789.363	7	895.034	7	1,000.705
8	50.7221	8	156.393	8	262.064	8	367.735	8	473.406	8	579.077	8	684.748	8	790.419	8	896.090	8	1,001.761
9	51.7788	9	157.450	9	263.121	9	368.792	9	474.463	9	580.134	9	685.805	9	791.476	9	897.147	9	1,002.818

No.	50–	No.	150–	No.	250–	No.	350–	No.	450–	No.	550–	No.	650–	No.	750–	No.	850–	No.	950–
50	52.8355	150	158.507	250	264.178	350	369.849	450	475.520	550	581.191	650	686.862	750	792.533	850	898.204	950	1,003.875
1	53.8922	1	159.563	1	265.234	1	370.905	1	476.576	1	582.247	1	687.918	1	793.590	1	899.261	1	1,004.932
2	54.9489	2	160.620	2	266.291	2	371.962	2	477.633	2	583.304	2	688.975	2	794.646	2	900.317	2	1,005.988
3	56.0057	3	161.677	3	267.348	3	373.019	3	478.690	3	584.361	3	690.032	3	795.703	3	901.374	3	1,007.045
4	57.0624	4	162.733	4	268.404	4	374.075	4	479.747	4	585.418	4	691.089	4	796.760	4	902.431	4	1,008.102
5	58.1191	5	163.790	5	269.461	5	375.132	5	480.803	5	586.474	5	692.145	5	797.816	5	903.487	5	1,009.158
6	59.1758	6	164.847	6	270.518	6	376.189	6	481.860	6	587.531	6	693.202	6	798.873	6	904.544	6	1,010.215
7	60.2325	7	165.904	7	271.575	7	377.246	7	482.917	7	588.588	7	694.259	7	799.930	7	905.601	7	1,011.272
8	61.2892	8	166.960	8	272.631	8	378.302	8	483.973	8	589.644	8	695.315	8	800.986	8	906.658	8	1,012.329
9	62.3459	9	168.017	9	273.688	9	379.359	9	485.030	9	590.701	9	696.372	9	802.043	9	907.714	9	1,013.385
60	63.4026	160	169.074	260	274.745	360	380.416	460	486.087	560	591.758	660	697.429	760	803.100	860	908.771	960	1,014.442
1	64.4593	1	170.130	1	275.801	1	381.472	1	487.143	1	592.815	1	698.486	1	804.157	1	909.828	1	1,015.499
2	65.5160	2	171.187	2	276.858	2	382.529	2	488.200	2	593.871	2	699.542	2	805.213	2	910.884	2	1,016.555
3	66.5728	3	172.244	3	277.915	3	383.586	3	489.257	3	594.928	3	700.599	3	806.270	3	911.941	3	1,017.612
4	67.6295	4	173.301	4	278.972	4	384.643	4	490.314	4	595.985	4	701.656	4	807.327	4	912.998	4	1,018.669
5	68.6862	5	174.357	5	280.028	5	385.699	5	491.370	5	597.041	5	702.712	5	808.383	5	914.054	5	1,019.726
6	69.7429	6	175.414	6	281.085	6	386.756	6	492.427	6	598.098	6	703.769	6	809.440	6	915.111	6	1,020.782
7	70.7996	7	176.471	7	282.142	7	387.813	7	493.484	7	599.155	7	704.826	7	810.497	7	916.168	7	1,021.839
8	71.8563	8	177.527	8	283.198	8	388.869	8	494.540	8	600.212	8	705.883	8	811.554	8	917.225	8	1,022.896
9	72.9130	9	178.584	9	284.255	9	389.926	9	495.597	9	601.268	9	706.939	9	812.610	9	918.281	9	1,023.952
70	73.9697	170	179.641	270	285.312	370	390.983	470	496.654	570	602.325	670	707.996	770	813.667	870	919.338	970	1,025.009
1	75.0264	1	180.697	1	286.369	1	392.040	1	497.711	1	603.382	1	709.053	1	814.724	1	920.395	1	1,026.066
2	76.0831	2	181.754	2	287.425	2	393.096	2	498.767	2	604.438	2	710.109	2	815.780	2	921.451	2	1,027.123
3	77.1399	3	182.811	3	288.482	3	394.153	3	499.824	3	605.495	3	711.166	3	816.837	3	922.508	3	1,028.179
4	78.1966	4	183.868	4	289.539	4	395.210	4	500.881	4	606.552	4	712.223	4	817.894	4	923.565	4	1,029.236
5	79.2533	5	184.924	5	290.595	5	396.266	5	501.937	5	607.608	5	713.280	5	818.951	5	924.622	5	1,030.293
6	80.3100	6	185.981	6	291.652	6	397.323	6	502.994	6	608.665	6	714.336	6	820.007	6	925.678	6	1,031.349
7	81.3667	7	187.038	7	292.709	7	398.380	7	504.051	7	609.722	7	715.393	7	821.064	7	926.735	7	1,032.406
8	82.4234	8	188.094	8	293.765	8	399.437	8	505.108	8	610.779	8	716.450	8	822.121	8	927.792	8	1,033.463
9	83.4801	9	189.151	9	294.822	9	400.493	9	506.164	9	611.835	9	717.506	9	823.177	9	928.848	9	1,034.519
80	84.5368	180	190.208	280	295.879	380	401.550	480	507.221	580	612.892	680	718.563	780	824.234	880	929.905	980	1,035.576
1	85.5935	1	191.265	1	296.936	1	402.607	1	508.278	1	613.949	1	719.620	1	825.291	1	930.962	1	1,036.633
2	86.6503	2	192.321	2	297.992	2	403.663	2	509.334	2	615.005	2	720.676	2	826.348	2	932.019	2	1,037.690
3	87.7070	3	193.378	3	299.049	3	404.720	3	510.391	3	616.062	3	721.733	3	827.404	3	933.075	3	1,038.746
4	88.7637	4	194.435	4	300.106	4	405.777	4	511.448	4	617.119	4	722.790	4	828.461	4	934.132	4	1,039.803
5	89.8204	5	195.491	5	301.162	5	406.834	5	512.505	5	618.176	5	723.847	5	829.518	5	935.189	5	1,040.860
6	90.8771	6	196.548	6	302.219	6	407.890	6	513.561	6	619.232	6	724.903	6	830.574	6	936.245	6	1,041.916
7	91.9338	7	197.605	7	303.276	7	408.947	7	514.618	7	620.289	7	725.960	7	831.631	7	937.302	7	1,042.973
8	92.9905	8	198.662	8	304.333	8	410.004	8	515.675	8	621.346	8	727.017	8	832.688	8	938.359	8	1,044.030
9	94.0472	9	199.718	9	305.389	9	411.060	9	516.731	9	622.402	9	728.073	9	833.745	9	939.416	9	1,045.087
90	95.1039	190	200.775	290	306.446	390	412.117	490	517.788	590	623.459	690	729.130	790	834.801	890	940.472	990	1,046.143
1	96.1606	1	201.832	1	307.503	1	413.174	1	518.845	1	624.516	1	730.187	1	835.858	1	941.529	1	1,047.200
2	97.2174	2	202.888	2	308.559	2	414.230	2	519.902	2	625.573	2	731.244	2	836.915	2	942.586	2	1,048.257
3	98.2741	3	203.945	3	309.616	3	415.287	3	520.958	3	626.629	3	732.300	3	837.971	3	943.642	3	1,049.313
4	99.3308	4	205.002	4	310.673	4	416.344	4	522.015	4	627.686	4	733.357	4	839.028	4	944.699	4	1,050.370
5	100.3875	5	206.059	5	311.730	5	417.401	5	523.072	5	628.743	5	734.414	5	840.085	5	945.756	5	1,051.427
6	101.4442	6	207.115	6	312.786	6	418.457	6	524.128	6	629.799	6	735.470	6	841.141	6	946.813	6	1,052.484
7	102.5009	7	208.172	7	313.843	7	419.514	7	525.185	7	630.856	7	736.527	7	842.198	7	947.869	7	1,053.540
8	103.5576	8	209.229	8	314.900	8	420.571	8	526.242	8	631.913	8	737.584	8	843.255	8	948.926	8	1,054.597
9	104.6143	9	210.285	9	315.956	9	421.627	9	527.298	9	632.970	9	738.641	9	844.312	9	949.983	9	1,055.654

CAPACITY—GALLONS TO LITERS

[Reduction factor: 1 gallon = 3.785323 liters]

Gallons 0–49

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
0	—	10	37.8533	20	75.7066	30	113.5600	40	151.4133
1	3.7853	1	41.6387	1	79.4920	1	117.3453	1	155.1986
2	7.5707	2	45.4240	2	83.2773	2	121.1306	2	158.9840
3	11.3560	3	49.2093	3	87.0626	3	124.9160	3	162.7693
4	15.1413	4	52.9947	4	90.8480	4	128.7013	4	166.5546
5	18.9267	5	56.7800	5	94.6333	5	132.4866	5	170.3400
6	22.7120	6	60.5653	6	98.4186	6	136.2720	6	174.1253
7	26.4973	7	64.3506	7	102.2040	7	140.0573	7	177.9106
8	30.2827	8	68.1360	8	105.9893	8	143.8426	8	181.6960
9	34.0680	9	71.9213	9	109.7746	9	147.6280	9	185.4813

Gallons 100–149

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
100	378.533	110	416.387	120	454.240	130	492.093	140	529.947
1	382.319	1	420.172	1	458.025	1	495.879	1	533.732
2	386.104	2	423.957	2	461.811	2	499.664	2	537.517
3	389.889	3	427.743	3	465.596	3	503.449	3	541.303
4	393.675	4	431.528	4	469.381	4	507.235	4	545.088
5	397.460	5	435.313	5	473.167	5	511.020	5	548.873
6	401.245	6	439.099	6	476.952	6	514.805	6	552.659
7	405.031	7	442.884	7	480.737	7	518.591	7	556.444
8	408.816	8	446.669	8	484.523	8	522.376	8	560.229
9	412.601	9	450.455	9	488.308	9	526.161	9	564.015

Gallons 200–249

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
200	757.066	210	794.920	220	832.773	230	870.626	240	908.480
1	760.852	1	798.705	1	836.558	1	874.412	1	912.265
2	764.637	2	802.490	2	840.344	2	878.197	2	916.050
3	768.422	3	806.276	3	844.129	3	881.982	3	919.836
4	772.208	4	810.061	4	847.914	4	885.768	4	923.621
5	775.993	5	813.846	5	851.700	5	889.553	5	927.406
6	779.778	6	817.632	6	855.485	6	893.338	6	931.192
7	783.564	7	821.417	7	859.270	7	897.124	7	934.977
8	787.349	8	825.202	8	863.056	8	900.909	8	938.762
9	791.134	9	828.988	9	866.841	9	904.694	9	942.548

Gallons 300–349

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
300	1,135.600	310	1,173.453	320	1,211.306	330	1,249.160	340	1,287.013
1	1,139.385	1	1,177.238	1	1,215.092	1	1,252.945	1	1,290.798
2	1,143.170	2	1,181.024	2	1,218.877	2	1,256.730	2	1,294.584
3	1,146.956	3	1,184.809	3	1,222.662	3	1,260.516	3	1,298.369
4	1,150.741	4	1,188.594	4	1,226.448	4	1,264.301	4	1,302.154
5	1,154.526	5	1,192.380	5	1,230.233	5	1,268.086	5	1,305.940
6	1,158.312	6	1,196.165	6	1,234.018	6	1,271.872	6	1,309.725
7	1,162.097	7	1,199.950	7	1,237.804	7	1,275.657	7	1,313.510
8	1,165.882	8	1,203.736	8	1,241.589	8	1,279.442	8	1,317.296
9	1,169.668	9	1,207.521	9	1,245.374	9	1,283.228	9	1,321.081

Gallons 400–449

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
400	1,514.133	410	1,551.986	420	1,589.840	430	1,627.693	440	1,665.546
1	1,517.918	1	1,555.772	1	1,593.625	1	1,631.478	1	1,669.332
2	1,521.704	2	1,559.557	2	1,597.410	2	1,635.264	2	1,673.117
3	1,525.489	3	1,563.342	3	1,601.196	3	1,639.049	3	1,676.902
4	1,529.274	4	1,567.128	4	1,604.981	4	1,642.834	4	1,680.688
5	1,533.060	5	1,570.913	5	1,608.766	5	1,646.620	5	1,684.473
6	1,536.845	6	1,574.698	6	1,612.552	6	1,650.405	6	1,688.258
7	1,540.630	7	1,578.484	7	1,616.337	7	1,654.190	7	1,692.044
8	1,544.416	8	1,582.269	8	1,620.122	8	1,657.976	8	1,695.829
9	1,548.201	9	1,586.054	9	1,623.908	9	1,661.761	9	1,699.614

Gallons 500–549

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
500	1,892.666	510	1,930.519	520	1,968.373	530	2,006.226	540	2,044.079
1	1,896.451	1	1,934.305	1	1,972.158	1	2,010.011	1	2,047.865
2	1,900.237	2	1,938.090	2	1,975.943	2	2,013.797	2	2,051.650
3	1,904.022	3	1,941.875	3	1,979.729	3	2,017.582	3	2,055.435
4	1,907.807	4	1,945.661	4	1,983.514	4	2,021.367	4	2,059.221
5	1,911.593	5	1,949.446	5	1,987.299	5	2,025.153	5	2,063.006
6	1,915.378	6	1,953.231	6	1,991.085	6	2,028.938	6	2,066.791
7	1,919.163	7	1,957.017	7	1,994.870	7	2,032.723	7	2,070.577
8	1,922.949	8	1,960.802	8	1,998.655	8	2,036.509	8	2,074.362
9	1,926.734	9	1,964.587	9	2,002.441	9	2,040.294	9	2,078.147

Gallons 600–649

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
600	2,271.199	610	2,309.053	620	2,346.906	630	2,384.759	640	2,422.613
1	2,274.985	1	2,312.838	1	2,350.691	1	2,388.545	1	2,426.398
2	2,278.770	2	2,316.623	2	2,354.477	2	2,392.330	2	2,430.183
3	2,282.555	3	2,320.409	3	2,358.262	3	2,396.115	3	2,433.969
4	2,286.341	4	2,324.194	4	2,362.047	4	2,399.901	4	2,437.754
5	2,290.126	5	2,327.979	5	2,365.833	5	2,403.686	5	2,441.539
6	2,293.911	6	2,331.765	6	2,369.618	6	2,407.471	6	2,445.325
7	2,297.697	7	2,335.550	7	2,373.403	7	2,411.257	7	2,449.110
8	2,301.482	8	2,339.335	8	2,377.189	8	2,415.042	8	2,452.895
9	2,305.267	9	2,343.121	9	2,380.974	9	2,418.827	9	2,456.681

Gallons 700–749

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
700	2,649.733	710	2,687.586	720	2,725.439	730	2,763.293	740	2,801.146
1	2,653.518	1	2,691.371	1	2,729.225	1	2,767.078	1	2,804.931
2	2,657.303	2	2,695.157	2	2,733.010	2	2,770.863	2	2,808.717
3	2,661.089	3	2,698.942	3	2,736.795	3	2,774.649	3	2,812.502
4	2,664.874	4	2,702.727	4	2,740.581	4	2,778.434	4	2,816.287
5	2,668.659	5	2,706.513	5	2,744.366	5	2,782.219	5	2,820.073
6	2,672.445	6	2,710.298	6	2,748.151	6	2,786.005	6	2,823.858
7	2,676.230	7	2,714.083	7	2,751.937	7	2,789.790	7	2,827.643
8	2,680.015	8	2,717.869	8	2,755.722	8	2,793.575	8	2,831.429
9	2,683.801	9	2,721.654	9	2,759.507	9	2,797.361	9	2,835.214

Gallons 800–849

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
800	3,028.266	810	3,066.119	820	3,103.972	830	3,141.826	840	3,179.679
1	3,032.051	1	3,069.904	1	3,107.758	1	3,145.611	1	3,183.464
2	3,035.837	2	3,073.690	2	3,111.543	2	3,149.396	2	3,187.250
3	3,039.622	3	3,077.475	3	3,115.328	3	3,153.182	3	3,191.035
4	3,043.407	4	3,081.260	4	3,119.114	4	3,156.967	4	3,194.820
5	3,047.193	5	3,085.046	5	3,122.899	5	3,160.752	5	3,198.606
6	3,050.978	6	3,088.831	6	3,126.684	6	3,164.538	6	3,202.391
7	3,054.763	7	3,092.616	7	3,130.470	7	3,168.323	7	3,206.176
8	3,058.548	8	3,096.402	8	3,134.255	8	3,172.108	8	3,209.962
9	3,062.334	9	3,100.187	9	3,138.040	9	3,175.894	9	3,213.747

Gallons 900–949

Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
900	3,406.799	910	3,444.652	920	3,482.506	930	3,520.359	940	3,558.212
1	3,410.584	1	3,448.438	1	3,486.291	1	3,524.144	1	3,561.998
2	3,414.370	2	3,452.223	2	3,490.076	2	3,527.930	2	3,565.783
3	3,418.155	3	3,456.008	3	3,493.862	3	3,531.715	3	3,569.568
4	3,421.940	4	3,459.794	4	3,497.647	4	3,535.500	4	3,573.354
5	3,425.726	5	3,463.579	5	3,501.432	5	3,539.286	5	3,577.139
6	3,429.511	6	3,467.364	6	3,505.218	6	3,543.071	6	3,580.924
7	3,433.296	7	3,471.150	7	3,509.003	7	3,546.856	7	3,584.710
8	3,437.081	8	3,474.935	8	3,512.788	8	3,550.642	8	3,588.495
9	3,440.867	9	3,478.720	9	3,516.574	9	3,554.427	9	3,592.280

50	189.2666	150	567.800	250	946.333	350	1,324.866	450	1,703.400	550	2,081.933	650	2,460.466	750	2,838.999	850	3,217.532	950	3,596.066
1	193.0519	1	571.585	1	950.118	1	1,328.652	1	1,707.185	1	2,085.718	1	2,464.251	1	2,842.785	1	3,221.318	1	3,599.851
2	196.8373	2	575.371	2	953.904	2	1,332.437	2	1,710.970	2	2,089.503	2	2,468.037	2	2,846.570	2	3,225.103	2	3,603.636
3	200.6226	3	579.156	3	957.689	3	1,336.222	3	1,714.756	3	2,093.289	3	2,471.822	3	2,850.355	3	3,228.888	3	3,607.422
4	204.4079	4	582.941	4	961.474	4	1,340.008	4	1,718.541	4	2,097.074	4	2,475.607	4	2,854.141	4	3,232.674	4	3,611.207
5	208.1933	5	586.727	5	965.260	5	1,343.793	5	1,722.326	5	2,100.859	5	2,479.393	5	2,857.926	5	3,236.459	5	3,614.992
6	211.9786	6	590.512	6	969.045	6	1,347.578	6	1,726.112	6	2,104.645	6	2,483.178	6	2,861.711	6	3,240.244	6	3,618.778
7	215.7639	7	594.297	7	972.830	7	1,351.364	7	1,729.897	7	2,108.430	7	2,486.963	7	2,865.497	7	3,244.030	7	3,622.563
8	219.5493	8	598.083	8	976.616	8	1,355.149	8	1,733.682	8	2,112.215	8	2,490.749	8	2,869.282	8	3,247.815	8	3,626.348
9	223.3346	9	601.868	9	980.401	9	1,358.934	9	1,737.468	9	2,116.001	9	2,494.534	9	2,873.067	9	3,251.600	9	3,630.134
60	227.1199	160	605.653	260	984.186	360	1,362.720	460	1,741.253	560	2,119.786	660	2,498.319	760	2,876.853	860	3,255.386	960	3,633.919
1	230.9053	1	609.438	1	987.972	1	1,366.525	1	1,745.038	1	2,123.571	1	2,502.105	1	2,880.638	1	3,259.171	1	3,637.704
2	234.6906	2	613.224	2	991.757	2	1,370.290	2	1,748.824	2	2,127.357	2	2,505.890	2	2,884.423	2	3,262.956	2	3,641.490
3	238.4759	3	617.009	3	995.542	3	1,374.076	3	1,752.609	3	2,131.142	3	2,509.675	3	2,888.209	3	3,266.742	3	3,645.275
4	242.2613	4	620.794	4	999.328	4	1,377.861	4	1,756.394	4	2,134.927	4	2,513.461	4	2,891.994	4	3,270.527	4	3,649.060
5	246.0466	5	624.580	5	1,003.113	5	1,381.646	5	1,760.180	5	2,138.713	5	2,517.246	5	2,895.779	5	3,274.312	5	3,652.846
6	249.8319	6	628.365	6	1,006.898	6	1,385.432	6	1,763.965	6	2,142.498	6	2,521.031	6	2,899.565	6	3,278.098	6	3,656.631
7	253.6173	7	632.150	7	1,010.684	7	1,389.217	7	1,767.750	7	2,146.283	7	2,524.817	7	2,903.350	7	3,281.883	7	3,660.416
8	257.4026	8	635.936	8	1,014.469	8	1,393.002	8	1,771.536	8	2,150.069	8	2,528.602	8	2,907.135	8	3,285.668	8	3,664.202
9	261.1879	9	639.721	9	1,018.254	9	1,396.788	9	1,775.321	9	2,153.854	9	2,532.387	9	2,910.921	9	3,289.454	9	3,667.987
70	264.9733	170	643.506	270	1,022.040	370	1,400.573	470	1,779.106	570	2,157.639	670	2,536.173	770	2,914.706	870	3,293.239	970	3,671.772
1	268.7586	1	647.292	1	1,025.825	1	1,404.358	1	1,782.892	1	2,161.425	1	2,539.958	1	2,918.491	1	3,297.024	1	3,675.558
2	272.5439	2	651.077	2	1,029.610	2	1,408.144	2	1,786.677	2	2,165.210	2	2,543.743	2	2,922.277	2	3,300.810	2	3,679.343
3	276.3293	3	654.862	3	1,033.396	3	1,411.929	3	1,790.462	3	2,168.995	3	2,547.529	3	2,926.062	3	3,304.595	3	3,683.128
4	280.1146	4	658.648	4	1,037.181	4	1,415.714	4	1,794.248	4	2,172.781	4	2,551.314	4	2,929.847	4	3,308.380	4	3,686.914
5	283.8999	5	662.433	5	1,040.966	5	1,419.500	5	1,798.033	5	2,176.566	5	2,555.099	5	2,933.633	5	3,312.166	5	3,690.699
6	287.6853	6	666.218	6	1,044.752	6	1,423.285	6	1,801.818	6	2,180.351	6	2,558.885	6	2,937.418	6	3,315.951	6	3,694.484
7	291.4706	7	670.004	7	1,048.537	7	1,427.070	7	1,805.604	7	2,184.137	7	2,562.670	7	2,941.203	7	3,319.736	7	3,698.270
8	295.2559	8	673.789	8	1,052.322	8	1,430.856	8	1,809.389	8	2,187.922	8	2,566.455	8	2,944.989	8	3,323.522	8	3,702.055
9	299.0413	9	677.574	9	1,056.108	9	1,434.641	9	1,813.174	9	2,191.707	9	2,570.241	9	2,948.774	9	3,327.307	9	3,705.840
80	302.8266	180	681.360	280	1,059.893	380	1,438.426	480	1,816.960	580	2,195.493	680	2,574.026	780	2,952.559	880	3,331.092	980	3,709.626
1	306.6119	1	685.145	1	1,063.678	1	1,442.212	1	1,820.745	1	2,199.278	1	2,577.811	1	2,956.345	1	3,334.878	1	3,713.411
2	310.3972	2	688.930	2	1,067.464	2	1,445.997	2	1,824.530	2	2,203.063	2	2,581.597	2	2,960.130	2	3,338.663	2	3,717.196
3	314.1826	3	692.716	3	1,071.249	3	1,449.782	3	1,828.316	3	2,206.849	3	2,585.382	3	2,963.915	3	3,342.448	3	3,720.982
4	317.9679	4	696.501	4	1,075.034	4	1,453.568	4	1,832.101	4	2,210.634	4	2,589.167	4	2,967.701	4	3,346.234	4	3,724.767
5	321.7532	5	700.286	5	1,078.820	5	1,457.353	5	1,835.886	5	2,214.419	5	2,592.953	5	2,971.486	5	3,350.019	5	3,728.552
6	325.5386	6	704.072	6	1,082.605	6	1,461.138	6	1,839.671	6	2,218.205	6	2,596.738	6	2,975.271	6	3,353.804	6	3,732.338
7	329.3239	7	707.857	7	1,086.390	7	1,464.924	7	1,843.457	7	2,221.990	7	2,600.523	7	2,979.057	7	3,357.590	7	3,736.123
8	333.1092	8	711.642	8	1,090.176	8	1,468.709	8	1,847.242	8	2,225.775	8	2,604.309	8	2,982.842	8	3,361.375	8	3,739.908
9	336.8946	9	715.428	9	1,093.961	9	1,472.494	9	1,851.027	9	2,229.561	9	2,608.094	9	2,986.627	9	3,365.160	9	3,743.694
90	340.6799	190	719.213	290	1,097.746	390	1,476.280	490	1,854.813	590	2,233.346	690	2,611.879	790	2,990.413	890	3,368.946	990	3,747.479
1	344.4652	1	722.998	1	1,101.532	1	1,480.065	1	1,858.598	1	2,237.131	1	2,615.665	1	2,994.198	1	3,372.731	1	3,751.264
2	348.2506	2	726.784	2	1,105.317	2	1,483.850	2	1,862.383	2	2,240.917	2	2,619.450	2	2,997.983	2	3,376.516	2	3,755.050
3	352.0359	3	730.569	3	1,109.102	3	1,487.636	3	1,866.169	3	2,244.702	3	2,623.235	3	3,001.769	3	3,380.302	3	3,758.835
4	355.8212	4	734.354	4	1,112.888	4	1,491.421	4	1,869.954	4	2,248.487	4	2,627.021	4	3,005.554	4	3,384.087	4	3,762.620
5	359.6066	5	738.140	5	1,116.673	5	1,495.206	5	1,873.739	5	2,252.273	5	2,630.806	5	3,009.339	5	3,387.872	5	3,766.406
6	363.3919	6	741.925	6	1,120.458	6	1,498.992	6	1,877.525	6	2,256.058	6	2,634.591	6	3,013.125	6	3,391.658	6	3,770.191
7	367.1772	7	745.710	7	1,124.244	7	1,502.777	7	1,881.310	7	2,259.843	7	2,638.377	7	3,016.910	7	3,395.443	7	3,773.976
8	370.9626	8	749.496	8	1,128.029	8	1,506.562	8	1,885.095	8	2,263.629	8	2,642.162	8	3,020.695	8	3,399.228	8	3,777.762
9	374.7479	9	753.281	9	1,131.814	9	1,510.348	9	1,888.881	9	2,267.414	9	2,645.947	9	3,024.481	9	3,403.014	9	3,781.547

CAPACITY—LITERS TO GALLONS

[Reduction factor: 1 liter=0.2641776o gallons]

Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons
0		100	26.4178	200	52.8355	300	79.2533	400	105.6710	500	132.0888	600	158.5066	700	184.9243	800	211.3421	900	237.7598
1	0.26418	1	26.6819	1	53.0997	1	79.5175	1	105.9352	1	132.3530	1	158.7707	1	185.1885	1	211.6063	1	238.0240
2	0.52836	2	26.9461	2	53.3639	2	79.7816	2	106.1994	2	132.6172	2	159.0349	2	185.4527	2	211.8704	2	238.2882
3	0.79253	3	27.2103	3	53.6281	3	80.0458	3	106.4636	3	132.8813	3	159.2991	3	185.7169	3	212.1346	3	238.5524
4	1.05671	4	27.4745	4	53.8922	4	80.3100	4	106.7278	4	133.1455	4	159.5633	4	185.9810	4	212.3988	4	238.8166
5	1.32089	5	27.7386	5	54.1564	5	80.5742	5	106.9919	5	133.4097	5	159.8274	5	186.2452	5	212.6630	5	239.0807
6	1.58507	6	28.0028	6	54.4206	6	80.8383	6	107.2561	6	133.6739	6	160.0916	6	186.5094	6	212.9271	6	239.3449
7	1.84924	7	28.2670	7	54.6848	7	81.1025	7	107.5203	7	133.9380	7	160.3558	7	186.7736	7	213.1913	7	239.6091
8	2.11342	8	28.5312	8	54.9489	8	81.3667	8	107.7845	8	134.2022	8	160.6200	8	187.0377	8	213.4555	8	239.8733
9	2.37760	9	28.7954	9	55.2131	9	81.6309	9	108.0486	9	134.4664	9	160.8842	9	187.3019	9	213.7197	9	240.1374
10	2.64178	110	29.0595	210	55.4773	310	81.8951	410	108.3128	510	134.7306	610	161.1483	710	187.5661	810	213.9839	910	240.4016
1	2.90595	1	29.3237	1	55.7415	1	82.1592	1	108.5770	1	134.9948	1	161.4125	1	187.8303	1	214.2480	1	240.6658
2	3.17013	2	29.5879	2	56.0057	2	82.4234	2	108.8412	2	135.2589	2	161.6767	2	188.0945	2	214.5122	2	240.9300
3	3.43431	3	29.8521	3	56.2698	3	82.6876	3	109.1053	3	135.5231	3	161.9409	3	188.3586	3	214.7764	3	241.1941
4	3.69849	4	30.1162	4	56.5340	4	82.9518	4	109.3695	4	135.7873	4	162.2050	4	188.6228	4	215.0406	4	241.4583
5	3.96266	5	30.3804	5	56.7982	5	83.2159	5	109.6337	5	136.0515	5	162.4692	5	188.8870	5	215.3047	5	241.7225
6	4.22684	6	30.6446	6	57.0624	6	83.4801	6	109.8979	6	136.3156	6	162.7334	6	189.1512	6	215.5689	6	241.9867
7	4.49102	7	30.9088	7	57.3265	7	83.7443	7	110.1621	7	136.5798	7	162.9976	7	189.4153	7	215.8331	7	242.2509
8	4.75520	8	31.1730	8	57.5907	8	84.0085	8	110.4262	8	136.8440	8	163.2618	8	189.6795	8	216.0973	8	242.5150
9	5.01937	9	31.4371	9	57.8549	9	84.2727	9	110.6904	9	137.1082	9	163.5259	9	189.9437	9	216.3615	9	242.7792
20	5.28355	120	31.7013	220	58.1191	320	84.5368	420	110.9546	520	137.3724	620	163.7901	720	190.2079	820	216.6256	920	243.0434
1	5.54773	1	31.9655	1	58.3832	1	84.8010	1	111.2188	1	137.6365	1	164.0543	1	190.4720	1	216.8898	1	243.3076
2	5.81191	2	32.2297	2	58.6474	2	85.0652	2	111.4829	2	137.9007	2	164.3185	2	190.7362	2	217.1540	2	243.5717
3	6.07608	3	32.4938	3	58.9116	3	85.3294	3	111.7471	3	138.1649	3	164.5826	3	191.0004	3	217.4182	3	243.8359
4	6.34026	4	32.7580	4	59.1758	4	85.5935	4	112.0113	4	138.4291	4	164.8468	4	191.2646	4	217.6823	4	244.1001
5	6.60444	5	33.0222	5	59.4400	5	85.8577	5	112.2755	5	138.6932	5	165.1110	5	191.5288	5	217.9465	5	244.3643
6	6.86862	6	33.2864	6	59.7041	6	86.1219	6	112.5397	6	138.9574	6	165.3752	6	191.7929	6	218.2107	6	244.6285
7	7.13280	7	33.5506	7	59.9683	7	86.3861	7	112.8038	7	139.2216	7	165.6394	7	192.0571	7	218.4749	7	244.8926
8	7.39697	8	33.8147	8	60.2325	8	86.6503	8	113.0680	8	139.4858	8	165.9035	8	192.3213	8	218.7391	8	245.1568
9	7.66115	9	34.0789	9	60.4967	9	86.9144	9	113.3322	9	139.7500	9	166.1677	9	192.5855	9	219.0032	9	245.4210
30	7.92533	130	34.3431	230	60.7608	330	87.1786	430	113.5964	530	140.0141	630	166.4319	730	192.8496	830	219.2674	930	245.6852
1	8.18951	1	34.6073	1	61.0250	1	87.4428	1	113.8605	1	140.2783	1	166.6961	1	193.1138	1	219.5316	1	245.9493
2	8.45368	2	34.8714	2	61.2892	2	87.7070	2	114.1247	2	140.5425	2	166.9602	2	193.3780	2	219.7958	2	246.2135
3	8.71786	3	35.1356	3	61.5534	3	87.9711	3	114.3889	3	140.8067	3	167.2244	3	193.6422	3	220.0599	3	246.4777
4	8.98204	4	35.3998	4	61.8176	4	88.2353	4	114.6531	4	141.0708	4	167.4886	4	193.9064	4	220.3241	4	246.7419
5	9.24622	5	35.6640	5	62.0817	5	88.4995	5	114.9173	5	141.3350	5	167.7528	5	194.1705	5	220.5883	5	247.0061
6	9.51039	6	35.9282	6	62.3459	6	88.7637	6	115.1814	6	141.5992	6	168.0170	6	194.4347	6	220.8525	6	247.2702
7	9.77457	7	36.1923	7	62.6101	7	89.0279	7	115.4456	7	141.8634	7	168.2811	7	194.6989	7	221.1167	7	247.5344
8	10.03875	8	36.4565	8	62.8743	8	89.2920	8	115.7098	8	142.1275	8	168.5453	8	194.9631	8	221.3808	8	247.7986
9	10.30293	9	36.7207	9	63.1384	9	89.5562	9	115.9740	9	142.3917	9	168.8095	9	195.2272	9	221.6450	9	248.0628
40	10.56710	140	36.9849	240	63.4026	340	89.8204	440	116.2381	540	142.6559	640	169.0737	740	195.4914	840	221.9092	940	248.3269
1	10.83128	1	37.2490	1	63.6668	1	90.0846	1	116.5023	1	142.9201	1	169.3378	1	195.7556	1	222.1734	1	248.5911
2	11.09546	2	37.5132	2	63.9310	2	90.3487	2	116.7665	2	143.1843	2	169.6020	2	196.0198	2	222.4375	2	248.8553
3	11.35964	3	37.7774	3	64.1952	3	90.6129	3	117.0307	3	143.4484	3	169.8662	3	196.2840	3	222.7017	3	249.1195
4	11.62381	4	38.0416	4	64.4593	4	90.8771	4	117.2949	4	143.7126	4	170.1304	4	196.5481	4	222.9659	4	249.3837
5	11.88799	5	38.3058	5	64.7235	5	91.1413	5	117.5590	5	143.9768	5	170.3946	5	196.8123	5	223.2301	5	249.6478
6	12.15217	6	38.5699	6	64.9877	6	91.4054	6	117.8232	6	144.2410	6	170.6587	6	197.0765	6	223.4942	6	249.9120
7	12.41635	7	38.8341	7	65.2519	7	91.6696	7	118.0874	7	144.5051	7	170.9229	7	197.3407	7	223.7584	7	250.1762
8	12.68052	8	39.0983	8	65.5160	8	91.9338	8	118.3516	8	144.7693	8	171.1871	8	197.6048	8	224.0226	8	250.4404
9	12.94470	9	39.3625	9	65.7802	9	92.1980	9	118.6157	9	145.0335	9	171.4513	9	197.8690	9	224.2868	9	250.7045

No.		No.		No.		No.		No.	
50	13.20888	150	39.6266	250	66.0044	350	92.4622	450	118.8799
1	13.47306	1	39.8908	1	66.3086	1	92.7263	1	119.1441
2	13.73724	2	40.1550	2	66.5728	2	92.9905	2	119.4083
3	14.00141	3	40.4192	3	66.8369	3	93.2547	3	119.6725
4	14.26559	4	40.6834	4	67.1011	4	93.5189	4	119.9366
5	14.52977	5	40.9475	5	67.3653	5	93.7830	5	120.2008
6	14.79395	6	41.2117	6	67.6295	6	94.0472	6	120.4650
7	15.05812	7	41.4759	7	67.8936	7	94.3114	7	120.7292
8	15.32230	8	41.7401	8	68.1578	8	94.5756	8	120.9933
9	15.58648	9	42.0042	9	68.4220	9	94.8398	9	121.2575
60	15.85066	160	42.2684	260	68.6862	360	95.1039	460	121.5217
1	16.11483	1	42.5326	1	68.9504	1	95.3681	1	121.7859
2	16.37901	2	42.7968	2	69.2145	2	95.6323	2	122.0501
3	16.64319	3	43.0609	3	69.4787	3	95.8965	3	122.3142
4	16.90737	4	43.3251	4	69.7429	4	96.1606	4	122.5784
5	17.17154	5	43.5893	5	70.0071	5	96.4248	5	122.8426
6	17.43572	6	43.8535	6	70.2712	6	96.6890	6	123.1068
7	17.69990	7	44.1177	7	70.5354	7	96.9532	7	123.3709
8	17.96408	8	44.3818	8	70.7996	8	97.2174	8	123.6351
9	18.22825	9	44.6460	9	71.0638	9	97.4815	9	123.8993
70	18.49243	170	44.9102	270	71.3280	370	97.7457	470	124.1635
1	18.75561	1	45.1744	1	71.5921	1	98.0099	1	124.4276
2	19.02079	2	45.4385	2	71.8563	2	98.2741	2	124.6918
3	19.28496	3	45.7027	3	72.1205	3	98.5382	3	124.9560
4	19.54914	4	45.9669	4	72.3847	4	98.8024	4	125.2202
5	19.81332	5	46.2311	5	72.6488	5	99.0666	5	125.4844
6	20.07750	6	46.4953	6	72.9130	6	99.3308	6	125.7485
7	20.34168	7	46.7594	7	73.1772	7	99.5950	7	126.0127
8	20.60585	8	47.0236	8	73.4414	8	99.8591	8	126.2769
9	20.87003	9	47.2878	9	73.7056	9	100.1233	9	126.5411
80	21.13421	180	47.5520	280	73.9697	380	100.3875	480	126.8052
1	21.39839	1	47.8161	1	74.2339	1	100.6517	1	127.0694
2	21.66256	2	48.0803	2	74.4981	2	100.9158	2	127.3336
3	21.92674	3	48.3445	3	74.7623	3	101.1800	3	127.5978
4	22.19092	4	48.6087	4	75.0264	4	101.4442	4	127.8620
5	22.45510	5	48.8729	5	75.2906	5	101.7084	5	128.1261
6	22.71927	6	49.1370	6	75.5548	6	101.9726	6	128.3903
7	22.98345	7	49.4012	7	75.8190	7	102.2367	7	128.6545
8	23.24763	8	49.6654	8	76.0831	8	102.5009	8	128.9187
9	23.51181	9	49.9296	9	76.3473	9	102.7651	9	129.1828
90	23.77598	190	50.1937	290	76.6115	390	103.0293	490	129.4470
1	24.04016	1	50.4579	1	76.8757	1	103.2934	1	129.7112
2	24.30434	2	50.7221	2	77.1399	2	103.5576	2	129.9754
3	24.56852	3	50.9863	3	77.4040	3	103.8218	3	130.2396
4	24.83269	4	51.2505	4	77.6682	4	104.0860	4	130.5037
5	25.09687	5	51.5146	5	77.9324	5	104.3502	5	130.7679
6	25.36105	6	51.7788	6	78.1966	6	104.6143	6	131.0321
7	25.62523	7	52.0430	7	78.4607	7	104.8785	7	131.2963
8	25.88940	8	52.3072	8	78.7249	8	105.1427	8	131.5604
9	26.15358	9	52.5713	9	78.9891	9	105.4069	9	131.8246

No.		No.		No.		No.		No.	
550	145.2977	650	171.7154	750	198.1332	850	224.5510	950	250.9687
1	145.5619	1	171.9796	1	198.3974	1	224.8151	1	251.2329
2	145.8260	2	172.2438	2	198.6616	2	225.0793	2	251.4971
3	146.0902	3	172.5080	3	198.9257	3	225.3435	3	251.7613
4	146.3544	4	172.7722	4	199.1899	4	225.6077	4	252.0254
5	146.6186	5	173.0363	5	199.4541	5	225.8718	5	252.2896
6	146.8827	6	173.3005	6	199.7183	6	226.1360	6	252.5538
7	147.1469	7	173.5647	7	199.9824	7	226.4002	7	252.8180
8	147.4111	8	173.8289	8	200.2466	8	226.6644	8	253.0821
9	147.6753	9	174.0930	9	200.5108	9	226.9286	9	253.3463
560	147.9395	660	174.3572	760	200.7750	860	227.1927	960	253.6105
1	148.2036	1	174.6214	1	201.0392	1	227.4569	1	253.8747
2	148.4678	2	174.8856	2	201.3033	2	227.7211	2	254.1389
3	148.7320	3	175.1497	3	201.5675	3	227.9853	3	254.4030
4	148.9962	4	175.4139	4	201.8317	4	228.2494	4	254.6672
5	149.2603	5	175.6781	5	202.0959	5	228.5136	5	254.9314
6	149.5245	6	175.9423	6	202.3600	6	228.7778	6	255.1956
7	149.7887	7	176.2065	7	202.6242	7	229.0420	7	255.4597
8	150.0529	8	176.4706	8	202.8884	8	229.3062	8	255.7239
9	150.3171	9	176.7348	9	203.1526	9	229.5703	9	255.9881
570	150.5812	670	176.9990	770	203.4168	870	229.8345	970	256.2523
1	150.8454	1	177.2632	1	203.6809	1	230.0987	1	256.5164
2	151.1096	2	177.5273	2	203.9451	2	230.3629	2	256.7806
3	151.3738	3	177.7915	3	204.2093	3	230.6270	3	257.0448
4	151.6379	4	178.0557	4	204.4735	4	230.8912	4	257.3090
5	151.9021	5	178.3199	5	204.7376	5	231.1554	5	257.5732
6	152.1663	6	178.5841	6	205.0018	6	231.4196	6	257.8373
7	152.4305	7	178.8482	7	205.2660	7	231.6838	7	258.1015
8	152.6947	8	179.1124	8	205.5302	8	231.9479	8	258.3657
9	152.9588	9	179.3766	9	205.7944	9	232.2121	9	258.6299
580	153.2230	680	179.6408	780	206.0585	880	232.4763	980	258.8940
1	153.4872	1	179.9049	1	206.3227	1	232.7405	1	259.1582
2	153.7514	2	180.1691	2	206.5869	2	233.0046	2	259.4224
3	154.0155	3	180.4333	3	206.8511	3	233.2688	3	259.6866
4	154.2797	4	180.6975	4	207.1152	4	233.5330	4	259.9508
5	154.5439	5	180.9617	5	207.3794	5	233.7972	5	260.2149
6	154.8081	6	181.2258	6	207.6436	6	234.0614	6	260.4791
7	155.0723	7	181.4900	7	207.9078	7	234.3255	7	260.7433
8	155.3364	8	181.7542	8	208.1719	8	234.5897	8	261.0075
9	155.6006	9	182.0184	9	208.4361	9	234.8539	9	261.2716
590	155.8648	690	182.2825	790	208.7003	890	235.1181	990	261.5358
1	156.1290	1	182.5467	1	208.9645	1	235.3822	1	261.8000
2	156.3931	2	182.8109	2	209.2287	2	235.6464	2	262.0642
3	156.6573	3	183.0751	3	209.4928	3	235.9106	3	262.3284
4	156.9215	4	183.3393	4	209.7570	4	236.1748	4	262.5925
5	157.1857	5	183.6034	5	210.0212	5	236.4390	5	262.8567
6	157.4498	6	183.8676	6	210.2854	6	236.7031	6	263.1209
7	157.7140	7	184.1318	7	210.5495	7	236.9673	7	263.3851
8	157.9782	8	184.3960	8	210.8137	8	237.2315	8	263.6492
9	158.2424	9	184.6601	9	211.0779	9	237.4957	9	263.9134

CAPACITY—BUSHELS TO HECTOLITERS

[Reduction factor: 1 bushel=0.3523830 hectoliters]

Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters
0		100	35.2383	200	70.4767	300	105.7150	400	140.9533	500	176.1917	600	211.4300	700	246.6683	800	281.9066	900	317.1450
1	0.35238	1	35.5907	1	70.8290	1	106.0674	1	141.3057	1	176.5440	1	211.7824	1	247.0207	1	282.2590	1	317.4974
2	0.70477	2	35.9431	2	71.1814	2	106.4198	2	141.6581	2	176.8964	2	212.1347	2	247.3731	2	282.6114	2	317.8497
3	1.05715	3	36.2955	3	71.5338	3	106.7721	3	142.0105	3	177.2488	3	212.4871	3	247.7255	3	282.9638	3	318.2021
4	1.40953	4	36.6479	4	71.8862	4	107.1245	4	142.3629	4	177.6012	4	212.8395	4	248.0778	4	283.3162	4	318.5545
5	1.76192	5	37.0002	5	72.2386	5	107.4769	5	142.7152	5	177.9536	5	213.1919	5	248.4302	5	283.6686	5	318.9069
6	2.11430	6	37.3526	6	72.5910	6	107.8293	6	143.0676	6	178.3060	6	213.5443	6	248.7826	6	284.0209	6	319.2593
7	2.46668	7	37.7050	7	72.9433	7	108.1817	7	143.4200	7	178.6583	7	213.8967	7	249.1350	7	284.3733	7	319.6117
8	2.81907	8	38.0574	8	73.2957	8	108.5341	8	143.7724	8	179.0107	8	214.2490	8	249.4874	8	284.7257	8	319.9640
9	3.17145	9	38.4098	9	73.6481	9	108.8864	9	144.1248	9	179.3631	9	214.6014	9	249.8398	9	285.0781	9	320.3164
10	3.52383	110	38.7622	210	74.0005	310	109.2388	410	144.4772	510	179.7155	610	214.9538	710	250.1921	810	285.4305	910	320.6688
1	3.87622	1	39.1145	1	74.3529	1	109.5912	1	144.8295	1	180.0679	1	215.3062	1	250.5445	1	285.7829	1	321.0212
2	4.22860	2	39.4669	2	74.7053	2	109.9436	2	145.1819	2	180.4203	2	215.6586	2	250.8969	2	286.1352	2	321.3736
3	4.58098	3	39.8193	3	75.0576	3	110.2960	3	145.5343	3	180.7726	3	216.0110	3	251.2493	3	286.4876	3	321.7260
4	4.93337	4	40.1717	4	75.4100	4	110.6484	4	145.8867	4	181.1250	4	216.3633	4	251.6017	4	286.8400	4	322.0783
5	5.28575	5	40.5241	5	75.7624	5	111.0007	5	146.2391	5	181.4774	5	216.7157	5	251.9541	5	287.1924	5	322.4307
6	5.63813	6	40.8765	6	76.1148	6	111.3531	6	146.5915	6	181.8298	6	217.0681	6	252.3064	6	287.5448	6	322.7831
7	5.99052	7	41.2288	7	76.4672	7	111.7055	7	146.9438	7	182.1822	7	217.4205	7	252.6588	7	287.8972	7	323.1355
8	6.34290	8	41.5812	8	76.8196	8	112.0579	8	147.2962	8	182.5346	8	217.7729	8	253.0112	8	288.2495	8	323.4879
9	6.69336	9	41.9336	9	77.1719	9	112.4103	9	147.6486	9	182.8869	9	218.1253	9	253.3636	9	288.6019	9	323.8403
20	7.04767	120	42.2860	220	77.5243	320	112.7627	420	148.0010	520	183.2393	620	218.4776	720	253.7160	820	288.9543	920	324.1926
1	7.40005	1	42.6384	1	77.8767	1	113.1150	1	148.3534	1	183.5917	1	218.8300	1	254.0684	1	289.3067	1	324.5450
2	7.75243	2	42.9908	2	78.2291	2	113.4674	2	148.7058	2	183.9441	2	219.1824	2	254.4207	2	289.6591	2	324.8974
3	8.10482	3	43.3431	3	78.5815	3	113.8198	3	149.0581	3	184.2965	3	219.5348	3	254.7731	3	290.0115	3	325.2498
4	8.45720	4	43.6955	4	78.9339	4	114.1722	4	149.4105	4	184.6489	4	219.8872	4	255.1255	4	290.3638	4	325.6022
5	8.80958	5	44.0479	5	79.2862	5	114.5246	5	149.7629	5	185.0012	5	220.2396	5	255.4779	5	290.7162	5	325.9546
6	9.16197	6	44.4003	6	79.6386	6	114.8770	6	150.1153	6	185.3536	6	220.5919	6	255.8303	6	291.0686	6	326.3069
7	9.51435	7	44.7527	7	79.9910	7	115.2293	7	150.4677	7	185.7060	7	220.9443	7	256.1827	7	291.4210	7	326.6593
8	9.86673	8	45.1051	8	80.3434	8	115.5817	8	150.8201	8	186.0584	8	221.2967	8	256.5350	8	291.7734	8	327.0117
9	10.21912	9	45.4574	9	80.6958	9	115.9341	9	151.1724	9	186.4108	9	221.6491	9	256.8874	9	292.1258	9	327.3641
30	10.57150	130	45.8098	230	81.0482	330	116.2865	430	151.5248	530	186.7631	630	222.0015	730	257.2398	830	292.4781	930	327.7165
1	10.92388	1	46.1622	1	81.4005	1	116.6389	1	151.8772	1	187.1155	1	222.3539	1	257.5922	1	292.8305	1	328.0689
2	11.27627	2	46.5146	2	81.7529	2	116.9913	2	152.2296	2	187.4679	2	222.7062	2	257.9446	2	293.1829	2	328.4212
3	11.62865	3	46.8670	3	82.1053	3	117.3436	3	152.5820	3	187.8203	3	223.0586	3	258.2970	3	293.5353	3	328.7736
4	11.98103	4	47.2194	4	82.4577	4	117.6960	4	152.9344	4	188.1727	4	223.4110	4	258.6493	4	293.8877	4	329.1260
5	12.33342	5	47.5717	5	82.8101	5	118.0484	5	153.2867	5	188.5251	5	223.7634	5	259.0017	5	294.2401	5	329.4784
6	12.68580	6	47.9241	6	83.1625	6	118.4008	6	153.6391	6	188.8774	6	224.1158	6	259.3541	6	294.5924	6	329.8308
7	13.03818	7	48.2765	7	83.5148	7	118.7532	7	153.9915	7	189.2298	7	224.4682	7	259.7065	7	294.9448	7	330.1832
8	13.39057	8	48.6289	8	83.8672	8	119.1056	8	154.3439	8	189.5822	8	224.8205	8	260.0589	8	295.2972	8	330.5355
9	13.74295	9	48.9813	9	84.2196	9	119.4579	9	154.6963	9	189.9346	9	225.1729	9	260.4113	9	295.6496	9	330.8879
40	14.09533	140	49.3337	240	84.5720	340	119.8103	440	155.0487	540	190.2870	640	225.5253	740	260.7636	840	296.0020	940	331.2403
1	14.44772	1	49.6860	1	84.9244	1	120.1627	1	155.4010	1	190.6394	1	225.8777	1	261.1160	1	296.3544	1	331.5927
2	14.80010	2	50.0384	2	85.2768	2	120.5151	2	155.7534	2	190.9917	2	226.2301	2	261.4684	2	296.7067	2	331.9451
3	15.15248	3	50.3908	3	85.6291	3	120.8675	3	156.1058	3	191.3441	3	226.5825	3	261.8208	3	297.0591	3	332.2975
4	15.50487	4	50.7432	4	85.9815	4	121.2199	4	156.4582	4	191.6965	4	226.9348	4	262.1732	4	297.4115	4	332.6498
5	15.85725	5	51.0956	5	86.3339	5	121.5722	5	156.8106	5	192.0489	5	227.2872	5	262.5256	5	297.7639	5	333.0022
6	16.20963	6	51.4480	6	86.6863	6	121.9246	6	157.1630	6	192.4013	6	227.6396	6	262.8779	6	298.1163	6	333.3546
7	16.56202	7	51.8003	7	87.0387	7	122.2770	7	157.5153	7	192.7537	7	227.9920	7	263.2303	7	298.4687	7	333.7070
8	16.91440	8	52.1527	8	87.3911	8	122.6294	8	157.8677	8	193.1060	8	228.3444	8	263.5827	8	298.8210	8	334.0594
9	17.26678	9	52.5051	9	87.7434	9	122.9818	9	158.2201	9	193.4584	9	228.6968	9	263.9351	9	299.1734	9	334.4118

N	N	100+N	200+N	300+N	400+N	500+N	600+N	700+N	800+N	900+N
50	17.61917	52.8575	88.0958	123.3342	158.5725	193.8108	229.0491	264.2875	299.5258	334.7641
51	17.97155	53.2099	88.4482	123.6065	158.9249	194.1632	229.4015	264.6399	299.8782	335.1165
52	18.32393	53.5623	88.8006	124.0389	159.2773	194.5156	229.7539	264.9922	300.2306	335.4689
53	18.67631	53.9146	89.1530	124.3913	159.6296	194.8680	230.1063	265.3446	300.5330	335.8213
54	19.02870	54.2670	89.5054	124.7437	159.9820	195.2203	230.4587	265.6970	300.9353	336.1737
55	19.38108	54.6194	89.8577	125.0961	160.3344	195.5727	230.8111	266.0494	301.2877	336.5261
56	19.73346	54.9718	90.2101	125.4485	160.6868	195.9251	231.1634	266.4018	301.6401	336.8784
57	20.08585	55.3242	90.5625	125.8008	161.0392	196.2775	231.5158	266.7542	301.9925	337.2308
58	20.43823	55.6766	90.9149	126.1532	161.3916	196.6299	231.8682	267.1065	302.3449	337.5832
59	20.79061	56.0289	91.2673	126.5056	161.7439	196.9823	232.2206	267.4589	302.6973	337.9356
60	21.14300	56.3813	91.6197	126.8580	162.0963	197.3346	232.5730	267.8113	303.0496	338.2880
61	21.49538	56.7337	91.9720	127.2104	162.4487	197.6870	232.9254	268.1637	303.4020	338.6404
62	21.84776	57.0861	92.3244	127.5628	162.8011	198.0394	233.2777	268.5161	303.7544	338.9927
63	22.20015	57.4385	92.6768	127.9151	163.1535	198.3918	233.6301	268.8685	304.1068	339.3451
64	22.55253	57.7909	93.0292	128.2675	163.5059	198.7442	233.9825	269.2208	304.4592	339.6975
65	22.90491	58.1432	93.3316	128.6199	163.8582	199.0966	234.3349	269.5732	304.8116	340.0499
66	23.25730	58.4956	93.7340	128.9723	164.2106	199.4489	234.6873	269.9256	305.1639	340.4023
67	23.60968	58.8480	94.0863	129.3247	164.5630	199.8013	235.0397	270.2780	305.5163	340.7547
68	23.96206	59.2004	94.4387	129.6771	164.9154	200.1537	235.3920	270.6304	305.8687	341.1070
69	24.31445	59.5528	94.7911	130.0294	165.2678	200.5061	235.7444	270.9828	306.2211	341.4594
70	24.66683	59.9052	95.1435	130.3818	165.6202	200.8585	236.0968	271.3351	306.5735	341.8118
71	25.01921	60.2575	95.4959	130.7342	165.9725	201.2109	236.4492	271.6875	306.9259	342.1642
72	25.37160	60.6099	95.8483	131.0866	166.3249	201.5632	236.8016	272.0399	307.2782	342.5166
73	25.72398	60.9623	96.2006	131.4390	166.6773	201.9156	237.1540	272.3923	307.6306	342.8690
74	26.07636	61.3147	96.5530	131.7914	167.0297	202.2680	237.5063	272.7447	307.9830	343.2213
75	26.42875	61.6671	96.9054	132.1437	167.3821	202.6204	237.8587	273.0971	308.3354	343.5737
76	26.78113	62.0195	97.2578	132.4961	167.7345	202.9728	238.2111	273.4494	308.6878	343.9261
77	27.13351	62.3718	97.6102	132.8485	168.0868	203.3252	238.5635	273.8018	309.0402	344.2785
78	27.48590	62.7242	97.9626	133.2009	168.4392	203.6775	238.9159	274.1542	309.3925	344.6309
79	27.83828	63.0766	98.3149	133.5533	168.7916	204.0299	239.2683	274.5066	309.7449	344.9833
80	28.19066	63.4290	98.6673	133.9057	169.1440	204.3823	239.6206	274.8590	310.0973	345.3356
81	28.54305	63.7814	99.0197	134.2580	169.4964	204.7347	239.9730	275.2114	310.4497	345.6880
82	28.89543	64.1338	99.3721	134.6104	169.8488	205.0871	240.3254	275.5637	310.8021	346.0404
83	29.24781	64.4861	99.7245	134.9628	170.2011	205.4395	240.6778	275.9161	311.1545	346.3928
84	29.60020	64.8385	100.0769	135.3152	170.5535	205.7918	241.0302	276.2685	311.5068	346.7452
85	29.95258	65.1909	100.4292	135.6676	170.9059	206.1442	241.3826	276.6209	311.8592	347.0976
86	30.30496	65.5433	100.7816	136.0200	171.2583	206.4966	241.7349	276.9733	312.2116	347.4499
87	30.65735	65.8957	101.1340	136.3723	171.6107	206.8490	242.0873	277.3257	312.5640	347.8023
88	31.00973	66.2481	101.4864	136.7247	171.9631	207.2014	242.4397	277.6780	312.9164	348.1547
89	31.36211	66.6004	101.8388	137.0771	172.3154	207.5538	242.7921	278.0304	313.2688	348.5071
90	31.71450	66.9528	102.1912	137.4295	172.6678	207.9061	243.1445	278.3828	313.6211	348.8595
91	32.06688	67.3052	102.5435	137.7819	173.0202	208.2585	243.4969	278.7352	313.9735	349.2119
92	32.41926	67.6576	102.8959	138.1343	173.3726	208.6109	243.8492	279.0876	314.3259	349.5642
93	32.77165	68.0100	103.2483	138.4866	173.7250	208.9633	244.2016	279.4400	314.6783	349.9166
94	33.12403	68.3624	103.6007	138.8390	174.0774	209.3157	244.5540	279.7923	315.0307	350.2690
95	33.47641	68.7147	103.9531	139.1914	174.4297	209.6681	244.9064	280.1447	315.3831	350.6214
96	33.82880	69.0671	104.3055	139.5438	174.7821	210.0204	245.2588	280.4971	315.7354	350.9738
97	34.18118	69.4195	104.6578	139.8962	175.1345	210.3728	245.6112	280.8495	316.0878	351.3262
98	34.53356	69.7719	105.0102	140.2486	175.4869	210.7252	245.9635	281.2019	316.4402	351.6785
99	34.88595	70.1243	105.3626	140.6009	175.8393	211.0776	246.3159	281.5543	316.7926	352.0309

CAPACITY—HECTOLITERS TO BUSHELS

[Reduction factor: 1 hectoliter = 2.837189 bushels]

Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels	Hecto-liters	Bushels
0		100	283.782	200	567.564	300	851.346	400	1,135.128	500	1,418.909	600	1,702.691	700	1,986.473	800	2,270.255	900	2,554.037
1	2.8378	1	286.620	1	570.402	1	854.183	1	1,137.965	1	1,421.747	1	1,705.529	1	1,989.311	1	2,273.093	1	2,556.875
2	5.6756	2	289.458	2	573.239	2	857.021	2	1,140.803	2	1,424.585	2	1,708.367	2	1,992.149	2	2,275.931	2	2,559.713
3	8.5135	3	292.295	3	576.077	3	859.859	3	1,143.641	3	1,427.423	3	1,711.205	3	1,994.987	3	2,278.769	3	2,562.550
4	11.3513	4	295.133	4	578.915	4	862.697	4	1,146.479	4	1,430.261	4	1,714.043	4	1,997.825	4	2,281.606	4	2,565.388
5	14.1891	5	297.971	5	581.753	5	865.535	5	1,149.317	5	1,433.099	5	1,716.880	5	2,000.662	5	2,284.444	5	2,568.226
6	17.0269	6	300.809	6	584.591	6	868.373	6	1,152.154	6	1,435.936	6	1,719.718	6	2,003.500	6	2,287.282	6	2,571.064
7	19.8647	7	303.647	7	587.429	7	871.210	7	1,154.992	7	1,438.774	7	1,722.556	7	2,006.338	7	2,290.120	7	2,573.902
8	22.7026	8	306.484	8	590.266	8	874.048	8	1,157.830	8	1,441.612	8	1,725.394	8	2,009.176	8	2,292.958	8	2,576.740
9	25.5404	9	309.322	9	593.104	9	876.886	9	1,160.668	9	1,444.450	9	1,728.232	9	2,012.014	9	2,295.796	9	2,579.577
10	28.3782	110	312.160	210	595.942	310	879.724	410	1,163.506	510	1,447.288	610	1,731.070	710	2,014.851	810	2,298.633	910	2,582.415
1	31.2160	1	314.998	1	598.780	1	882.562	1	1,166.344	1	1,450.125	1	1,733.907	1	2,017.689	1	2,301.471	1	2,585.253
2	34.0538	2	317.836	2	601.618	2	885.400	2	1,169.181	2	1,452.963	2	1,736.745	2	2,020.527	2	2,304.309	2	2,588.091
3	36.8916	3	320.674	3	604.455	3	888.237	3	1,172.019	3	1,455.801	3	1,739.583	3	2,023.365	3	2,307.147	3	2,590.929
4	39.7295	4	323.511	4	607.293	4	891.075	4	1,174.857	4	1,458.639	4	1,742.421	4	2,026.203	4	2,309.985	4	2,593.766
5	42.5673	5	326.349	5	610.131	5	893.913	5	1,177.695	5	1,461.477	5	1,745.259	5	2,029.041	5	2,312.822	5	2,596.604
6	45.4051	6	329.187	6	612.969	6	896.751	6	1,180.533	6	1,464.315	6	1,748.096	6	2,031.878	6	2,315.660	6	2,599.442
7	48.2429	7	332.025	7	615.807	7	899.589	7	1,183.370	7	1,467.152	7	1,750.934	7	2,034.716	7	2,318.498	7	2,602.280
8	51.0807	8	334.863	8	618.645	8	902.426	8	1,186.208	8	1,469.990	8	1,753.772	8	2,037.554	8	2,321.336	8	2,605.118
9	53.9186	9	337.700	9	621.482	9	905.264	9	1,189.046	9	1,472.828	9	1,756.610	9	2,040.392	9	2,324.174	9	2,607.956
20	56.7564	120	340.538	220	624.320	320	908.102	420	1,191.884	520	1,475.666	620	1,759.448	720	2,043.230	820	2,327.012	920	2,610.793
1	59.5942	1	343.376	1	627.158	1	910.940	1	1,194.722	1	1,478.504	1	1,762.286	1	2,046.067	1	2,329.849	1	2,613.631
2	62.4320	2	346.214	2	629.996	2	913.778	2	1,197.560	2	1,481.341	2	1,765.123	2	2,048.905	2	2,332.687	2	2,616.469
3	65.2698	3	349.052	3	632.834	3	916.616	3	1,200.397	3	1,484.179	3	1,767.961	3	2,051.743	3	2,335.525	3	2,619.307
4	68.1077	4	351.890	4	635.671	4	919.453	4	1,203.235	4	1,487.017	4	1,770.799	4	2,054.581	4	2,338.363	4	2,622.145
5	70.9455	5	354.727	5	638.509	5	922.291	5	1,206.073	5	1,489.855	5	1,773.637	5	2,057.419	5	2,341.201	5	2,624.982
6	73.7833	6	357.565	6	641.347	6	925.129	6	1,208.911	6	1,492.693	6	1,776.475	6	2,060.257	6	2,344.038	6	2,627.820
7	76.6211	7	360.403	7	644.185	7	927.967	7	1,211.749	7	1,495.531	7	1,779.312	7	2,063.094	7	2,346.876	7	2,630.658
8	79.4589	8	363.241	8	647.023	8	930.805	8	1,214.586	8	1,498.368	8	1,782.150	8	2,065.932	8	2,349.714	8	2,633.496
9	82.2967	9	366.079	9	649.861	9	933.642	9	1,217.424	9	1,501.206	9	1,784.988	9	2,068.770	9	2,352.552	9	2,636.334
30	85.1346	130	368.916	230	652.698	330	936.480	430	1,220.262	530	1,504.044	630	1,787.826	730	2,071.608	830	2,355.390	930	2,639.172
1	87.9724	1	371.754	1	655.536	1	939.318	1	1,223.100	1	1,506.882	1	1,790.664	1	2,074.446	1	2,358.228	1	2,642.009
2	90.8102	2	374.592	2	658.374	2	942.156	2	1,225.938	2	1,509.720	2	1,793.502	2	2,077.283	2	2,361.065	2	2,644.847
3	93.6480	3	377.430	3	661.212	3	944.994	3	1,228.776	3	1,512.557	3	1,796.339	3	2,080.121	3	2,363.903	3	2,647.685
4	96.4858	4	380.268	4	664.050	4	947.832	4	1,231.613	4	1,515.395	4	1,799.177	4	2,082.959	4	2,366.741	4	2,650.523
5	99.3237	5	383.106	5	666.887	5	950.669	5	1,234.451	5	1,518.233	5	1,802.015	5	2,085.797	5	2,369.579	5	2,653.361
6	102.1615	6	385.943	6	669.725	6	953.507	6	1,237.289	6	1,521.071	6	1,804.853	6	2,088.635	6	2,372.417	6	2,656.199
7	104.9993	7	388.781	7	672.563	7	956.345	7	1,240.127	7	1,523.909	7	1,807.691	7	2,091.473	7	2,375.254	7	2,659.036
8	107.8371	8	391.619	8	675.401	8	959.183	8	1,242.965	8	1,526.747	8	1,810.528	8	2,094.310	8	2,378.092	8	2,661.874
9	110.6749	9	394.457	9	678.239	9	962.021	9	1,245.803	9	1,529.584	9	1,813.366	9	2,097.148	9	2,380.930	9	2,664.712
40	113.5128	140	397.295	240	681.077	340	964.858	440	1,248.640	540	1,532.422	640	1,816.204	740	2,099.986	840	2,383.768	940	2,667.550
1	116.3506	1	400.132	1	683.914	1	967.696	1	1,251.478	1	1,535.260	1	1,819.042	1	2,102.824	1	2,386.606	1	2,670.388
2	119.1884	2	402.970	2	686.752	2	970.534	2	1,254.316	2	1,538.098	2	1,821.880	2	2,105.662	2	2,389.444	2	2,673.225
3	122.0262	3	405.808	3	689.590	3	973.372	3	1,257.154	3	1,540.936	3	1,824.718	3	2,108.499	3	2,392.281	3	2,676.063
4	124.8640	4	408.646	4	692.428	4	976.210	4	1,259.992	4	1,543.773	4	1,827.555	4	2,111.337	4	2,395.119	4	2,678.901
5	127.7019	5	411.484	5	695.266	5	979.048	5	1,262.829	5	1,546.611	5	1,830.393	5	2,114.175	5	2,397.957	5	2,681.739
6	130.5397	6	414.322	6	698.103	6	981.885	6	1,265.667	6	1,549.449	6	1,833.231	6	2,117.013	6	2,400.795	6	2,684.577
7	133.3775	7	417.159	7	700.941	7	984.723	7	1,268.505	7	1,552.287	7	1,836.069	7	2,119.851	7	2,403.633	7	2,687.415
8	136.2153	8	419.997	8	703.779	8	987.561	8	1,271.343	8	1,555.125	8	1,838.907	8	2,122.689	8	2,406.470	8	2,690.252
9	139.0531	9	422.835	9	706.617	9	990.399	9	1,274.181	9	1,557.963	9	1,841.744	9	2,125.526	9	2,409.308	9	2,693.090

No.	50	150	250	350	450	550	650	750	850	950
50	141.8909	425.673	709.455	993.237	1,277.019	1,560.800	1,844.582	2,128.364	2,412.146	2,695.928
51	144.7288	428.511	712.293	996.074	1,279.856	1,563.638	1,847.420	2,131.202	2,414.984	2,698.766
52	147.5666	431.348	715.130	998.912	1,282.694	1,566.476	1,850.258	2,134.040	2,417.822	2,701.604
53	150.4044	434.186	717.968	1,001.750	1,285.532	1,569.314	1,853.096	2,136.878	2,420.660	2,704.441
54	153.2422	437.024	720.806	1,004.588	1,288.370	1,572.152	1,855.934	2,139.715	2,423.497	2,707.279
55	156.0800	439.862	723.644	1,007.426	1,291.208	1,574.989	1,858.771	2,142.553	2,426.335	2,710.117
56	158.9179	442.700	726.482	1,010.264	1,294.045	1,577.827	1,861.609	2,145.391	2,429.173	2,712.955
57	161.7557	445.538	729.319	1,013.101	1,296.883	1,580.665	1,864.447	2,148.229	2,432.011	2,715.793
58	164.5935	448.375	732.157	1,015.939	1,299.721	1,583.503	1,867.285	2,151.067	2,434.849	2,718.631
59	167.4313	451.213	734.995	1,018.777	1,302.559	1,586.341	1,870.123	2,153.905	2,437.686	2,721.468
60	170.2691	454.051	737.833	1,021.615	1,305.397	1,589.179	1,872.960	2,156.742	2,440.524	2,724.306
61	173.1070	456.889	740.671	1,024.453	1,308.235	1,592.016	1,875.798	2,159.580	2,443.362	2,727.144
62	175.9448	459.727	743.509	1,027.290	1,311.072	1,594.854	1,878.635	2,162.418	2,446.200	2,729.982
63	178.7826	462.564	746.346	1,030.128	1,313.910	1,597.692	1,881.474	2,165.256	2,449.038	2,732.820
64	181.6204	465.402	749.184	1,032.966	1,316.748	1,600.530	1,884.312	2,168.094	2,451.876	2,735.657
65	184.4582	468.240	752.022	1,035.804	1,319.586	1,603.368	1,887.150	2,170.931	2,454.713	2,738.495
66	187.2960	471.078	754.860	1,038.642	1,322.424	1,606.206	1,889.987	2,173.769	2,457.551	2,741.333
67	190.1339	473.916	757.698	1,041.480	1,325.261	1,609.043	1,892.825	2,176.607	2,460.389	2,744.171
68	192.9717	476.754	760.535	1,044.317	1,328.099	1,611.881	1,895.663	2,179.445	2,463.227	2,747.009
69	195.8095	479.591	763.373	1,047.155	1,330.937	1,614.719	1,898.501	2,182.283	2,466.065	2,749.847
70	198.6473	482.429	766.211	1,049.993	1,333.775	1,617.557	1,901.339	2,185.121	2,468.902	2,752.684
71	201.4851	485.267	769.049	1,052.831	1,336.613	1,620.395	1,904.176	2,187.958	2,471.740	2,755.522
72	204.3230	488.105	771.887	1,055.669	1,339.451	1,623.232	1,907.014	2,190.796	2,474.578	2,758.360
73	207.1608	490.943	774.725	1,058.506	1,342.288	1,626.070	1,909.852	2,193.634	2,477.416	2,761.198
74	209.9986	493.780	777.562	1,061.344	1,345.126	1,628.908	1,912.690	2,196.472	2,480.254	2,764.036
75	212.8364	496.618	780.400	1,064.182	1,347.964	1,631.746	1,915.528	2,199.310	2,483.092	2,766.873
76	215.6742	499.456	783.238	1,067.020	1,350.802	1,634.584	1,918.366	2,202.147	2,485.929	2,769.711
77	218.5121	502.294	786.076	1,069.858	1,353.640	1,637.422	1,921.203	2,204.985	2,488.767	2,772.549
78	221.3499	505.132	788.914	1,072.696	1,356.477	1,640.259	1,924.041	2,207.823	2,491.605	2,775.387
79	224.1877	507.970	791.751	1,075.533	1,359.315	1,643.097	1,926.879	2,210.661	2,494.443	2,778.225
80	227.0255	510.807	794.589	1,078.371	1,362.153	1,645.935	1,929.717	2,213.499	2,497.281	2,781.063
81	229.8633	513.645	797.427	1,081.209	1,364.991	1,648.773	1,932.555	2,216.337	2,500.118	2,783.900
82	232.7012	516.483	800.265	1,084.047	1,367.829	1,651.611	1,935.393	2,219.174	2,502.956	2,786.738
83	235.5390	519.321	803.103	1,086.885	1,370.667	1,654.448	1,938.230	2,222.012	2,505.794	2,789.576
84	238.3768	522.159	805.941	1,089.722	1,373.504	1,657.286	1,941.068	2,224.850	2,508.632	2,792.414
85	241.2146	524.996	808.778	1,092.560	1,376.342	1,660.124	1,943.906	2,227.688	2,511.470	2,795.252
86	244.0524	527.834	811.616	1,095.398	1,379.180	1,662.962	1,946.744	2,230.526	2,514.308	2,798.089
87	246.8902	530.672	814.454	1,098.236	1,382.018	1,665.800	1,949.582	2,233.363	2,517.145	2,800.927
88	249.7281	533.510	817.292	1,101.074	1,384.856	1,668.638	1,952.419	2,236.201	2,519.983	2,803.765
89	252.5659	536.348	820.130	1,103.912	1,387.693	1,671.475	1,955.257	2,239.039	2,522.821	2,806.603
90	255.4037	539.186	822.967	1,106.749	1,390.531	1,674.313	1,958.095	2,241.877	2,525.659	2,809.441
91	258.2415	542.023	825.805	1,109.587	1,393.369	1,677.151	1,960.933	2,244.715	2,528.497	2,812.279
92	261.0793	544.861	828.643	1,112.425	1,396.207	1,679.989	1,963.771	2,247.553	2,531.334	2,815.116
93	263.9172	547.699	831.481	1,115.263	1,399.045	1,682.827	1,966.609	2,250.390	2,534.172	2,817.954
94	266.7550	550.537	834.319	1,118.101	1,401.883	1,685.664	1,969.446	2,253.228	2,537.010	2,820.792
95	269.5928	553.375	837.157	1,120.938	1,404.720	1,688.502	1,972.284	2,256.066	2,539.848	2,823.630
96	272.4306	556.213	839.994	1,123.776	1,407.558	1,691.340	1,975.122	2,258.904	2,542.686	2,826.468
97	275.2684	559.050	842.832	1,126.614	1,410.396	1,694.178	1,977.960	2,261.742	2,545.524	2,829.305
98	278.1063	561.888	845.670	1,129.452	1,413.234	1,697.016	1,980.798	2,264.579	2,548.361	2,832.143
99	280.9441	564.726	848.508	1,132.290	1,416.072	1,699.854	1,983.635	2,267.417	2,551.199	2,834.981

MASS—AVOIRDUPOIS POUNDS TO KILOGRAMS

[Reduction factor: 1 avoirdupois pound=0.45359 24277 kilogram]

Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos
0		**100**	45.35924	**200**	90.71849	**300**	136.07773	**400**	181.43697	**500**	226.79621	**600**	272.15546	**700**	317.51470	**800**	362.87394	**900**	408.23318
1	0.45359	1	45.81284	1	91.17208	1	136.53132	1	181.89056	1	227.24981	1	272.60905	1	317.96829	1	363.32753	1	408.68678
2	.90718	2	46.26643	2	91.62567	2	136.98491	2	182.34416	2	227.70340	2	273.06264	2	318.42188	2	363.78113	2	409.14037
3	1.36078	3	46.72002	3	92.07926	3	137.43851	3	182.79775	3	228.15699	3	273.51623	3	318.87548	3	364.23472	3	409.59396
4	1.81437	4	47.17361	4	92.53286	4	137.89210	4	183.25134	4	228.61058	4	273.96983	4	319.32907	4	364.68831	4	410.04755
5	2.26796	5	47.62720	5	92.98645	5	138.34569	5	183.70493	5	229.06418	5	274.42342	5	319.78266	5	365.14190	5	410.50115
6	2.72155	6	48.08080	6	93.44004	6	138.79928	6	184.15853	6	229.51777	6	274.87701	6	320.23625	6	365.59550	6	410.95474
7	3.17515	7	48.53439	7	93.89363	7	139.25288	7	184.61212	7	229.97136	7	275.33060	7	320.68985	7	366.04909	7	411.40833
8	3.62874	8	48.98798	8	94.34722	8	139.70647	8	185.06571	8	230.42495	8	275.78420	8	321.14344	8	366.50268	8	411.86192
9	4.08233	9	49.44157	9	94.80082	9	140.16006	9	185.51930	9	230.87855	9	276.23779	9	321.59703	9	366.95627	9	412.31552
10	4.53592	**110**	49.89517	**210**	95.25441	**310**	140.61365	**410**	185.97290	**510**	231.33214	**610**	276.69138	**710**	322.05062	**810**	367.40987	**910**	412.76911
1	4.98952	1	50.34876	1	95.70800	1	141.06725	1	186.42649	1	231.78573	1	277.14497	1	322.50422	1	367.86346	1	413.22270
2	5.44311	2	50.80235	2	96.16159	2	141.52084	2	186.88008	2	232.23932	2	277.59857	2	322.95781	2	368.31705	2	413.67629
3	5.89670	3	51.25594	3	96.61519	3	141.97443	3	187.33367	3	232.69292	3	278.05216	3	323.41140	3	368.77064	3	414.12989
4	6.35029	4	51.70954	4	97.06878	4	142.42802	4	187.78727	4	233.14651	4	278.50575	4	323.86499	4	369.22424	4	414.58348
5	6.80389	5	52.16313	5	97.52237	5	142.88161	5	188.24086	5	233.60010	5	278.95934	5	324.31859	5	369.67783	5	415.03707
6	7.25748	6	52.61672	6	97.97596	6	143.33521	6	188.69445	6	234.05369	6	279.41294	6	324.77218	6	370.13142	6	415.49066
7	7.71107	7	53.07031	7	98.42956	7	143.78880	7	189.14804	7	234.50729	7	279.86653	7	325.22577	7	370.58501	7	415.94426
8	8.16466	8	53.52391	8	98.88315	8	144.24239	8	189.60163	8	234.96088	8	280.32012	8	325.67936	8	371.03861	8	416.39785
9	8.61826	9	53.97750	9	99.33674	9	144.69598	9	190.05523	9	235.41447	9	280.77371	9	326.13296	9	371.49220	9	416.85144
20	9.07185	**120**	54.43109	**220**	99.79033	**320**	145.14958	**420**	190.50882	**520**	235.86806	**620**	281.22731	**720**	326.58655	**820**	371.94579	**920**	417.30503
1	9.52544	1	54.88468	1	100.24393	1	145.60317	1	190.96241	1	236.32165	1	281.68090	1	327.04014	1	372.39938	1	417.75863
2	9.97903	2	55.33828	2	100.69752	2	146.05676	2	191.41600	2	236.77525	2	282.13449	2	327.49373	2	372.85298	2	418.21222
3	10.43263	3	55.79187	3	101.15111	3	146.51035	3	191.86960	3	237.22884	3	282.58808	3	327.94733	3	373.30657	3	418.66581
4	10.88622	4	56.24546	4	101.60470	4	146.96395	4	192.32319	4	237.68243	4	283.04167	4	328.40092	4	373.76016	4	419.11940
5	11.33981	5	56.69905	5	102.05830	5	147.41754	5	192.77678	5	238.13602	5	283.49527	5	328.85451	5	374.21375	5	419.57300
6	11.79340	6	57.15265	6	102.51189	6	147.87113	6	193.23037	6	238.58962	6	283.94886	6	329.30810	6	374.66735	6	420.02659
7	12.24700	7	57.60624	7	102.96548	7	148.32472	7	193.68397	7	239.04321	7	284.40245	7	329.76169	7	375.12094	7	420.48018
8	12.70059	8	58.05983	8	103.41907	8	148.77832	8	194.13756	8	239.49680	8	284.85604	8	330.21529	8	375.57453	8	420.93377
9	13.15418	9	58.51342	9	103.87267	9	149.23191	9	194.59115	9	239.95039	9	285.30964	9	330.66888	9	376.02812	9	421.38737
30	13.60777	**130**	58.96702	**230**	104.32626	**330**	149.68550	**430**	195.04474	**530**	240.40399	**630**	285.76323	**730**	331.12247	**830**	376.48171	**930**	421.84096
1	14.06137	1	59.42061	1	104.77985	1	150.13909	1	195.49834	1	240.85758	1	286.21682	1	331.57606	1	376.93531	1	422.29455
2	14.51496	2	59.87420	2	105.23344	2	150.59269	2	195.95193	2	241.31117	2	286.67041	2	332.02966	2	377.38890	2	422.74814
3	14.96855	3	60.32779	3	105.68704	3	151.04628	3	196.40552	3	241.76476	3	287.12401	3	332.48325	3	377.84249	3	423.20174
4	15.42214	4	60.78139	4	106.14063	4	151.49987	4	196.85911	4	242.21836	4	287.57760	4	332.93684	4	378.29608	4	423.65533
5	15.87573	5	61.23498	5	106.59422	5	151.95346	5	197.31271	5	242.67195	5	288.03119	5	333.39043	5	378.74968	5	424.10892
6	16.32933	6	61.68857	6	107.04781	6	152.40706	6	197.76630	6	243.12554	6	288.48478	6	333.84403	6	379.20327	6	424.56251
7	16.78292	7	62.14216	7	107.50141	7	152.86065	7	198.21989	7	243.57913	7	288.93838	7	334.29762	7	379.65686	7	425.01610
8	17.23651	8	62.59576	8	107.95500	8	153.31424	8	198.67348	8	244.03273	8	289.39197	8	334.75121	8	380.11045	8	425.46970
9	17.69010	9	63.04935	9	108.40859	9	153.76783	9	199.12708	9	244.48632	9	289.84556	9	335.20480	9	380.56405	9	425.92329
40	18.14370	**140**	63.50294	**240**	108.86218	**340**	154.22143	**440**	199.58067	**540**	244.93991	**640**	290.29915	**740**	335.65840	**840**	381.01764	**940**	426.37688
1	18.59729	1	63.95653	1	109.31578	1	154.67502	1	200.03426	1	245.39350	1	290.75275	1	336.11199	1	381.47123	1	426.83047
2	19.05088	2	64.41012	2	109.76937	2	155.12861	2	200.48785	2	245.84710	2	291.20634	2	336.56558	2	381.92482	2	427.28407
3	19.50447	3	64.86372	3	110.22296	3	155.58220	3	200.94145	3	246.30069	3	291.65993	3	337.01917	3	382.37842	3	427.73766
4	19.95807	4	65.31731	4	110.67655	4	156.03580	4	201.39504	4	246.75428	4	292.11352	4	337.47277	4	382.83301	4	428.19125
5	20.41166	5	65.77090	5	111.13014	5	156.48939	5	201.84863	5	247.20787	5	292.56712	5	337.92636	5	383.28560	5	428.64484
6	20.86525	6	66.22449	6	111.58374	6	156.94298	6	202.30222	6	247.66147	6	293.02071	6	338.37995	6	383.73919	6	429.09844
7	21.31884	7	66.67809	7	112.03733	7	157.39657	7	202.75582	7	248.11506	7	293.47430	7	338.83354	7	384.19279	7	429.55203
8	21.77244	8	67.13168	8	112.49092	8	157.85016	8	203.20941	8	248.56865	8	293.92789	8	339.28714	8	384.64638	8	430.00562
9	22.22603	9	67.58527	9	112.94451	9	158.30376	9	203.66300	9	249.02224	9	294.38149	9	339.74073	9	385.09997	9	430.45921

50		60		70		80		90	
50	22.67962	60	27.21555	70	31.75147	80	36.28739	90	40.82332
1	23.13321	1	27.66914	1	32.20506	1	36.74099	1	41.27691
2	23.58681	2	28.12273	2	32.65865	2	37.19458	2	41.73050
3	24.04040	3	28.57632	3	33.11225	3	37.64817	3	42.18410
4	24.49399	4	29.02992	4	33.56584	4	38.10176	4	42.63769
5	24.94758	5	29.48351	5	34.01943	5	38.55536	5	43.09128
6	25.40118	6	29.93710	6	34.47302	6	39.00895	6	43.54487
7	25.85477	7	30.39069	7	34.92662	7	39.46254	7	43.99847
8	26.30836	8	30.84429	8	35.38021	8	39.91613	8	44.45206
9	26.76195	9	31.29788	9	35.83380	9	40.36973	9	44.90565

150		160		170		180		190	
150	68.03886	160	72.57479	170	77.11071	180	81.64664	190	86.18256
1	68.49246	1	73.02838	1	77.56431	1	82.10023	1	86.63615
2	68.94605	2	73.48197	2	78.01790	2	82.55382	2	87.08975
3	69.39964	3	73.93557	3	78.47149	3	83.00741	3	87.54334
4	69.85323	4	74.38916	4	78.92509	4	83.46101	4	87.99693
5	70.30683	5	74.84275	5	79.37867	5	83.91460	5	88.45052
6	70.76042	6	75.29634	6	79.83227	6	84.36819	6	88.90412
7	71.21401	7	75.74994	7	80.28586	7	84.82178	7	89.35771
8	71.66760	8	76.20353	8	80.73945	8	85.27538	8	89.81130
9	72.12120	9	76.65712	9	81.19304	9	85.72897	9	90.26489

250		260		270		280		290	
250	113.39811	260	117.93403	270	122.46996	280	127.00588	290	131.54180
1	113.85170	1	118.38762	1	122.92355	1	127.45947	1	131.99540
2	114.30529	2	118.84122	2	123.37714	2	127.91306	2	132.44899
3	114.75888	3	119.29481	3	123.83073	3	128.36666	3	132.90258
4	115.21248	4	119.74840	4	124.28433	4	128.82025	4	133.35617
5	115.66607	5	120.20199	5	124.73792	5	129.27384	5	133.80977
6	116.11966	6	120.65559	6	125.19151	6	129.72743	6	134.26336
7	116.57325	7	121.10918	7	125.64510	7	130.18103	7	134.71695
8	117.02685	8	121.56277	8	126.09869	8	130.63462	8	135.17054
9	117.48044	9	122.01636	9	126.55229	9	131.08821	9	135.62414

350		360		370		380		390	
350	158.75735	360	163.29327	370	167.82920	380	172.36512	390	176.90105
1	159.21094	1	163.74687	1	168.28279	1	172.81871	1	177.35464
2	159.66453	2	164.20046	2	168.73638	2	173.27231	2	177.80823
3	160.11813	3	164.65405	3	169.18998	3	173.72590	3	178.26182
4	160.57172	4	165.10764	4	169.64357	4	174.17949	4	178.71542
5	161.02531	5	165.56124	5	170.09716	5	174.63308	5	179.16901
6	161.47890	6	166.01483	6	170.55075	6	175.08668	6	179.62260
7	161.93250	7	166.46842	7	171.00435	7	175.54027	7	180.07619
8	162.38609	8	166.92201	8	171.45794	8	175.99386	8	180.52979
9	162.83968	9	167.37561	9	171.91153	9	176.44745	9	180.98338

450		460		470		480		490	
450	204.11659	460	208.65252	470	213.18844	480	217.72437	490	222.26029
1	204.57018	1	209.10611	1	213.64203	1	218.17796	1	222.71388
2	205.02378	2	209.55970	2	214.09563	2	218.63155	2	223.16747
3	205.47737	3	210.01329	3	214.54922	3	219.08514	3	223.62107
4	205.93096	4	210.46689	4	215.00281	4	219.53874	4	224.07466
5	206.38455	5	210.92048	5	215.45640	5	219.99233	5	224.52825
6	206.83815	6	211.37407	6	215.91000	6	220.44592	6	224.98184
7	207.29174	7	211.82766	7	216.36359	7	220.89951	7	225.43544
8	207.74533	8	212.28126	8	216.81718	8	221.35310	8	225.88903
9	208.19892	9	212.73485	9	217.27077	9	221.80670	9	226.34262

550		560		570		580		590	
550	249.47584	560	254.01176	570	258.54768	580	263.08361	590	267.61953
1	249.92943	1	254.46535	1	259.00128	1	263.53720	1	268.07312
2	250.38302	2	254.91894	2	259.45487	2	263.99079	2	268.52672
3	250.83661	3	255.37254	3	259.90846	3	264.44439	3	268.98031
4	251.29020	4	255.82613	4	260.36205	4	264.89798	4	269.43390
5	251.74380	5	256.27972	5	260.81565	5	265.35157	5	269.88749
6	252.19739	6	256.73331	6	261.26924	6	265.80516	6	270.34109
7	252.65098	7	257.18691	7	261.72283	7	266.25876	7	270.79468
8	253.10457	8	257.64050	8	262.17642	8	266.71235	8	271.24827
9	253.55817	9	258.09409	9	262.63002	9	267.16594	9	271.70186

650		660		670		680		690	
650	294.83508	660	299.37100	670	303.90693	680	308.44285	690	312.97878
1	295.28867	1	299.82459	1	304.36052	1	308.89644	1	313.43237
2	295.74226	2	300.27819	2	304.81411	2	309.35004	2	313.88596
3	296.19586	3	300.73178	3	305.26770	3	309.80363	3	314.33955
4	296.64945	4	301.18537	4	305.72130	4	310.25722	4	314.79314
5	297.10304	5	301.63896	5	306.17489	5	310.71081	5	315.24674
6	297.55663	6	302.09256	6	306.62848	6	311.16441	6	315.70033
7	298.01022	7	302.54615	7	307.08207	7	311.61800	7	316.15392
8	298.46382	8	302.99974	8	307.53567	8	312.07159	8	316.60751
9	298.91741	9	303.45333	9	307.98926	9	312.52518	9	317.06111

750		760		770		780		790	
750	340.19432	760	344.73025	770	349.26617	780	353.80209	790	358.33802
1	340.64791	1	345.18384	1	349.71976	1	354.25569	1	358.79161
2	341.10151	2	345.63743	2	350.17335	2	354.70928	2	359.24520
3	341.55510	3	346.09102	3	350.62695	3	355.16287	3	359.69880
4	342.00869	4	346.54461	4	351.08054	4	355.61646	4	360.15239
5	342.46228	5	346.99821	5	351.53413	5	356.07006	5	360.60598
6	342.91588	6	347.45180	6	351.98772	6	356.52365	6	361.05957
7	343.36947	7	347.90539	7	352.44132	7	356.97724	7	361.51316
8	343.82306	8	348.35898	8	352.89491	8	357.43083	8	361.96676
9	344.27665	9	348.81258	9	353.34850	9	357.88443	9	362.42035

850		860		870		880		890	
850	385.55356	860	390.08949	870	394.62541	880	399.16134	890	403.69726
1	386.00716	1	390.54308	1	395.07900	1	399.61493	1	404.15085
2	386.46075	2	390.99667	2	395.53260	2	400.06852	2	404.60445
3	386.91434	3	391.45027	3	395.98619	3	400.52211	3	405.05804
4	387.36793	4	391.90386	4	396.43978	4	400.97571	4	405.51163
5	387.82153	5	392.35745	5	396.89337	5	401.42930	5	405.96522
6	388.27512	6	392.81104	6	397.34697	6	401.88289	6	406.41882
7	388.72871	7	393.26463	7	397.80056	7	402.33648	7	406.87241
8	389.18230	8	393.71823	8	398.25415	8	402.79008	8	407.32600
9	389.63590	9	394.17182	9	398.70774	9	403.24367	9	407.77959

950		960		970		980		990	
950	430.91281	960	435.44873	970	439.98465	980	444.52058	990	449.05650
1	431.36640	1	435.90232	1	440.43825	1	444.97417	1	449.51010
2	431.81999	2	436.35592	2	440.89184	2	445.42776	2	449.96369
3	432.27358	3	436.80951	3	441.34543	3	445.88136	3	450.41728
4	432.72718	4	437.26310	4	441.79902	4	446.33495	4	450.87087
5	433.18077	5	437.71669	5	442.25262	5	446.78854	5	451.32447
6	433.63436	6	438.17029	6	442.70621	6	447.24213	6	451.77806
7	434.08795	7	438.62388	7	443.15980	7	447.69573	7	452.23165
8	434.54155	8	439.07747	8	443.61339	8	448.14932	8	452.68524
9	434.99514	9	439.53106	9	444.06699	9	448.60291	9	453.13884

MASS—KILOGRAMS TO AVOIRDUPOIS POUNDS

[Reduction factor: 1 kilogram = 2.20462234 avoirdupois pounds]

In the table below each column group is headed **Kilos** and **Pounds**. The leftmost column gives the unit part of the kilogram value; the remaining columns give the corresponding pounds for each hundred (0, 100, 200, … 900).

Kilos (units)	0	100	200	300	400	500	600	700	800	900
0		220.4622	440.9245	661.3867	881.8499	1,102.3112	1,322.7734	1,543.2356	1,763.6979	1,984.1601
1	2.2046	222.6669	443.1291	663.5913	884.0536	1,104.5158	1,324.9780	1,545.4403	1,765.9025	1,986.3647
2	4.4092	224.8715	445.3337	665.7959	886.2582	1,106.7204	1,327.1826	1,547.6449	1,768.1071	1,988.5694
3	6.6139	227.0761	447.5383	668.0006	888.4628	1,108.9250	1,329.3873	1,549.8495	1,770.3117	1,990.7740
4	8.8185	229.2807	449.7430	670.2052	890.6674	1,111.1297	1,331.5919	1,552.0541	1,772.5164	1,992.9786
5	11.0231	231.4853	451.9476	672.4098	892.8720	1,113.3343	1,333.7965	1,554.2588	1,774.7210	1,995.1832
6	13.2277	233.6900	454.1522	674.6144	895.0767	1,115.5389	1,336.0011	1,556.4634	1,776.9256	1,997.3878
7	15.4324	235.8946	456.3568	676.8191	897.2813	1,117.7435	1,338.2058	1,558.6680	1,779.1302	1,999.5925
8	17.6370	238.0992	458.5614	679.0237	899.4859	1,119.9481	1,340.4104	1,560.8726	1,781.3349	2,001.7971
9	19.8416	240.3038	460.7661	681.2283	901.6905	1,122.1528	1,342.6150	1,563.0772	1,783.5395	2,004.0017
10	22.0462	242.5085	462.9707	683.4329	903.8952	1,124.3574	1,344.8196	1,565.2819	1,785.7441	2,006.2063
11	24.2508	244.7131	465.1753	685.6375	906.0998	1,126.5620	1,347.0243	1,567.4865	1,787.9487	2,008.4110
12	26.4555	246.9177	467.3799	687.8422	908.3044	1,128.7666	1,349.2289	1,569.6911	1,790.1533	2,010.6156
13	28.6601	249.1223	469.5846	690.0468	910.5090	1,130.9713	1,351.4335	1,571.8957	1,792.3580	2,012.8202
14	30.8647	251.3269	471.7892	692.2514	912.7136	1,133.1759	1,353.6381	1,574.1004	1,794.5626	2,015.0248
15	33.0693	253.5316	473.9938	694.4560	914.9183	1,135.3805	1,355.8427	1,576.3050	1,796.7672	2,017.2294
16	35.2740	255.7362	476.1984	696.6607	917.1229	1,137.5851	1,358.0474	1,578.5096	1,798.9718	2,019.4341
17	37.4786	257.9408	478.4030	698.8653	919.3275	1,139.7898	1,360.2520	1,580.7142	1,801.1765	2,021.6387
18	39.6832	260.1454	480.6077	701.0699	921.5321	1,141.9944	1,362.4566	1,582.9188	1,803.3811	2,023.8433
19	41.8878	262.3501	482.8123	703.2745	923.7368	1,144.1990	1,364.6612	1,585.1235	1,805.5857	2,026.0479
20	44.0924	264.5547	485.0169	705.4791	925.9414	1,146.4036	1,366.8659	1,587.3281	1,807.7903	2,028.2526
21	46.2971	266.7593	487.2215	707.6838	928.1460	1,148.6082	1,369.0705	1,589.5327	1,809.9949	2,030.4572
22	48.5017	268.9639	489.4262	709.8884	930.3506	1,150.8129	1,371.2751	1,591.7373	1,812.1996	2,032.6618
23	50.7063	271.1685	491.6308	712.0930	932.5553	1,153.0175	1,373.4797	1,593.9420	1,814.4042	2,034.8664
24	52.9109	273.3732	493.8354	714.2976	934.7599	1,155.2221	1,375.6843	1,596.1466	1,816.6088	2,037.0710
25	55.1156	275.5778	496.0400	716.5023	936.9645	1,157.4267	1,377.8890	1,598.3512	1,818.8134	2,039.2757
26	57.3202	277.7824	498.2446	718.7069	939.1691	1,159.6314	1,380.0936	1,600.5558	1,821.0181	2,041.4803
27	59.5248	279.9870	500.4493	720.9115	941.3737	1,161.8360	1,382.2982	1,602.7604	1,823.2227	2,043.6849
28	61.7294	282.1917	502.6539	723.1161	943.5784	1,164.0406	1,384.5028	1,604.9651	1,825.4273	2,045.8895
29	63.9340	284.3963	504.8585	725.3208	945.7830	1,166.2452	1,386.7075	1,607.1697	1,827.6319	2,048.0942
30	66.1387	286.6009	507.0631	727.5254	947.9876	1,168.4498	1,388.9121	1,609.3743	1,829.8365	2,050.2988
31	68.3433	288.8055	509.2678	729.7300	950.1922	1,170.6545	1,391.1167	1,611.5789	1,832.0412	2,052.5034
32	70.5479	291.0101	511.4724	731.9346	952.3969	1,172.8591	1,393.3213	1,613.7836	1,834.2458	2,054.7080
33	72.7525	293.2148	513.6770	734.1392	954.6015	1,175.0637	1,395.5259	1,615.9882	1,836.4504	2,056.9126
34	74.9572	295.4194	515.8816	736.3439	956.8061	1,177.2683	1,397.7306	1,618.1928	1,838.6550	2,059.1173
35	77.1618	297.6240	518.0863	738.5485	959.0107	1,179.4730	1,399.9352	1,620.3974	1,840.8597	2,061.3219
36	79.3664	299.8286	520.2909	740.7531	961.2153	1,181.6776	1,402.1398	1,622.6020	1,843.0643	2,063.5265
37	81.5710	302.0333	522.4955	742.9577	963.4200	1,183.8822	1,404.3444	1,624.8067	1,845.2689	2,065.7311
38	83.7756	304.2379	524.7001	745.1624	965.6246	1,186.0868	1,406.5491	1,627.0113	1,847.4735	2,067.9358
39	85.9803	306.4425	526.9047	747.3670	967.8292	1,188.2914	1,408.7537	1,629.2159	1,849.6781	2,070.1404
40	88.1849	308.6471	529.1094	749.5716	970.0338	1,190.4961	1,410.9583	1,631.4205	1,851.8828	2,072.3450
41	90.3895	310.8518	531.3140	751.7762	972.2385	1,192.7007	1,413.1629	1,633.6252	1,854.0874	2,074.5496
42	92.5941	313.0564	533.5186	753.9808	974.4431	1,194.9053	1,415.3675	1,635.8298	1,856.2920	2,076.7542
43	94.7988	315.2610	535.7232	756.1855	976.6477	1,197.1099	1,417.5722	1,638.0344	1,858.4966	2,078.9589
44	97.0034	317.4656	537.9279	758.3901	978.8523	1,199.3146	1,419.7768	1,640.2390	1,860.7013	2,081.1635
45	99.2080	319.6702	540.1325	760.5947	981.0569	1,201.5192	1,421.9814	1,642.4436	1,862.9059	2,083.3681
46	101.4126	321.8749	542.3371	762.7993	983.2616	1,203.7238	1,424.1860	1,644.6483	1,865.1105	2,085.5727
47	103.6173	324.0795	544.5417	765.0040	985.4662	1,205.9284	1,426.3907	1,646.8529	1,867.3151	2,087.7774
48	105.8219	326.2841	546.7463	767.2086	987.6708	1,208.1330	1,428.5953	1,649.0575	1,869.5197	2,089.9820
49	108.0265	328.4887	548.9510	769.4132	989.8754	1,210.3377	1,430.7999	1,651.2621	1,871.7244	2,092.1866

Table of equivalents (kilograms to avoirdupois pounds). Each physical row shares the same last two digits; columns give the hundreds group.

	50	150	250	350	450	550	650	750	850	950
50	110.2311	330.6934	551.1556	771.6178	992.0801	1,212.5423	1,433.0045	1,653.4668	1,873.9290	2,094.3912
51	112.4357	332.8980	553.3602	773.8224	994.2847	1,214.7469	1,435.2091	1,655.6714	1,876.1336	2,096.5958
52	114.6404	335.1026	555.5648	776.0271	996.4893	1,216.9515	1,437.4138	1,657.8760	1,878.3382	2,098.8005
53	116.8450	337.3072	557.7695	778.2317	998.6939	1,219.1562	1,439.6184	1,660.0806	1,880.5429	2,101.0051
54	119.0496	339.5118	559.9741	780.4363	1,000.8985	1,221.3608	1,441.8230	1,662.2852	1,882.7475	2,103.2097
55	121.2542	341.7165	562.1787	782.6409	1,003.1032	1,223.5654	1,444.0276	1,664.4899	1,884.9521	2,105.4143
56	123.4589	343.9211	564.3833	784.8456	1,005.3078	1,225.7700	1,446.2323	1,666.6945	1,887.1567	2,107.6190
57	125.6635	346.1257	566.5879	787.0502	1,007.5124	1,227.9746	1,448.4369	1,668.8991	1,889.3613	2,109.8236
58	127.8681	348.3303	568.7926	789.2548	1,009.7170	1,230.1793	1,450.6415	1,671.1037	1,891.5660	2,112.0282
59	130.0727	350.5350	570.9972	791.4594	1,011.9217	1,232.3839	1,452.8461	1,673.3084	1,893.7706	2,114.2328
60	132.3773	352.7396	573.2018	793.6640	1,014.1263	1,234.5885	1,455.0507	1,675.5130	1,895.9752	2,116.4374
61	134.4820	354.9442	575.4064	795.8687	1,016.3309	1,236.7931	1,457.2554	1,677.7176	1,898.1798	2,118.6421
62	136.6866	357.1488	577.6111	798.0733	1,018.5355	1,238.9978	1,459.4600	1,679.9222	1,900.3845	2,120.8467
63	138.8912	359.3534	579.8157	800.2779	1,020.7401	1,241.2024	1,461.6646	1,682.1268	1,902.5891	2,123.0513
64	141.0958	361.5581	582.0203	802.4825	1,022.9448	1,243.4070	1,463.8692	1,684.3315	1,904.7937	2,125.2559
65	143.3005	363.7627	584.2249	804.6872	1,025.1494	1,245.6116	1,466.0739	1,686.5361	1,906.9983	2,127.4606
66	145.5051	365.9673	586.4295	806.8918	1,027.3540	1,247.8162	1,468.2785	1,688.7407	1,909.2029	2,129.6652
67	147.7097	368.1719	588.6342	809.0964	1,029.5586	1,250.0209	1,470.4831	1,690.9453	1,911.4076	2,131.8698
68	149.9143	370.3766	590.8388	811.3010	1,031.7633	1,252.2255	1,472.6877	1,693.1500	1,913.6122	2,134.0744
69	152.1189	372.5812	593.0434	813.5056	1,033.9679	1,254.4301	1,474.8923	1,695.3546	1,915.8168	2,136.2790
70	154.3236	374.7858	595.2480	815.7103	1,036.1725	1,256.6347	1,477.0970	1,697.5592	1,918.0214	2,138.4837
71	156.5282	376.9904	597.4527	817.9149	1,038.3771	1,258.8394	1,479.3016	1,699.7638	1,920.2261	2,140.6883
72	158.7328	379.1950	599.6573	820.1195	1,040.5817	1,261.0440	1,481.5062	1,701.9684	1,922.4307	2,142.8929
73	160.9374	381.3997	601.8619	822.3241	1,042.7864	1,263.2486	1,483.7108	1,704.1731	1,924.6353	2,145.0975
74	163.1421	383.6043	604.0665	824.5288	1,044.9910	1,265.4532	1,485.9155	1,706.3777	1,926.8399	2,147.3022
75	165.3467	385.8089	606.2711	826.7334	1,047.1956	1,267.6578	1,488.1201	1,708.5823	1,929.0445	2,149.5068
76	167.5513	388.0135	608.4758	828.9380	1,049.4002	1,269.8625	1,490.3247	1,710.7869	1,931.2492	2,151.7114
77	169.7559	390.2182	610.6804	831.1426	1,051.6049	1,272.0671	1,492.5293	1,712.9916	1,933.4538	2,153.9160
78	171.9605	392.4228	612.8850	833.3472	1,053.8095	1,274.2717	1,494.7339	1,715.1962	1,935.6584	2,156.1206
79	174.1652	394.6274	615.0896	835.5519	1,056.0141	1,276.4763	1,496.9386	1,717.4008	1,937.8630	2,158.3253
80	176.3698	396.8320	617.2943	837.7565	1,058.2187	1,278.6810	1,499.1432	1,719.6054	1,940.0677	2,160.5299
81	178.5744	399.0366	619.4989	839.9611	1,060.4233	1,280.8856	1,501.3478	1,721.8100	1,942.2723	2,162.7345
82	180.7790	401.2413	621.7035	842.1657	1,062.6280	1,283.0902	1,503.5524	1,724.0147	1,944.4769	2,164.9391
83	182.9837	403.4459	623.9081	844.3704	1,064.8326	1,285.2948	1,505.7571	1,726.2193	1,946.6815	2,167.1438
84	185.1883	405.6505	626.1127	846.5750	1,067.0372	1,287.4994	1,507.9617	1,728.4239	1,948.8861	2,169.3484
85	187.3929	407.8551	628.3174	848.7796	1,069.2418	1,289.7041	1,510.1663	1,730.6285	1,951.0908	2,171.5530
86	189.5975	410.0598	630.5220	850.9842	1,071.4465	1,291.9087	1,512.3709	1,732.8332	1,953.2954	2,173.7576
87	191.8021	412.2644	632.7266	853.1888	1,073.6511	1,294.1133	1,514.5755	1,735.0378	1,955.5000	2,175.9623
88	194.0068	414.4690	634.9312	855.3935	1,075.8557	1,296.3179	1,516.7802	1,737.2424	1,957.7046	2,178.1669
89	196.2114	416.6736	637.1359	857.5981	1,078.0603	1,298.5226	1,518.9848	1,739.4470	1,959.9093	2,180.3715
90	198.4160	418.8782	639.3405	859.8027	1,080.2649	1,300.7272	1,521.1894	1,741.6516	1,962.1139	2,182.5761
91	200.6206	421.0829	641.5451	862.0073	1,082.4696	1,302.9318	1,523.3940	1,743.8563	1,964.3185	2,184.7807
92	202.8253	423.2875	643.7497	864.2120	1,084.6742	1,305.1364	1,525.5987	1,746.0609	1,966.5231	2,186.9854
93	205.0299	425.4921	645.9543	866.4166	1,086.8788	1,307.3410	1,527.8033	1,748.2655	1,968.7278	2,189.1900
94	207.2345	427.6967	648.1590	868.6212	1,089.0834	1,309.5457	1,530.0079	1,750.4701	1,970.9324	2,191.3946
95	209.4391	429.9014	650.3636	870.8258	1,091.2881	1,311.7503	1,532.2125	1,752.6748	1,973.1370	2,193.5992
96	211.6437	432.1060	652.5682	873.0304	1,093.4927	1,313.9549	1,534.4171	1,754.8794	1,975.3416	2,195.8039
97	213.8484	434.3106	654.7728	875.2351	1,095.6973	1,316.1595	1,536.6218	1,757.0840	1,977.5462	2,198.0085
98	216.0530	436.5152	656.9775	877.4397	1,097.9019	1,318.3642	1,538.8264	1,759.2886	1,979.7509	2,200.2131
99	218.2576	438.7198	659.1821	879.6443	1,100.1065	1,320.5688	1,541.0310	1,761.4933	1,981.9555	2,202.4177

X. STATUS OF THE INTERNATIONAL METRIC SYSTEM IN THE UNITED STATES

"The Congress shall have power to * * * fix the standard of weights and measures." (Constitution of the United States.)

THE METRIC SYSTEM LEGALIZED

"It shall be lawful throughout the United States of America to employ the weights and measures of the metric system." (Revised Statutes of the United States, sec. 3569, 1866.)

THE METRIC STANDARDS ADOPTED AS FUNDAMENTAL

"The office of weights and measures * * * will in the future regard the international prototype meter and kilogram as fundamental standards, in accordance with the act of July 28, 1866." (Order approved by the Secretary of the Treasury, Apr. 5, 1893.)

FOREIGN POSTAL RATES BASED ON METRIC WEIGHTS

"The Postmaster-General shall furnish to the post-offices exchanging mails with foreign countries, and to such other offices as he may deem expedient, postal balances denominated in grams of the metric system, fifteen grams of which shall be the equivalent for postal purposes, of one-half ounce avoirdupois, and so on in progression." (Revised Statutes of the United States, sec. 3880.)

METRIC WEIGHTS USED IN THE COINAGE

"The weight of the half-dollar shall be twelve grams and one-half of a gram; the quarter-dollar and the dime shall be, respectively, one-half and one-fifth of the weight of said half-dollar." (Revised Statutes of the United States, sec. 3513.)

CONGRESS PROVIDES METRIC STANDARDS FOR THE STATES OF THE UNION

"*Be it resolved by the Senate and House of Representatives of the United States of America in Congress assembled,* That the Secretary of the Treasury be, and he is hereby, authorized and directed to furnish to each State, to be delivered to the governor thereof, one set of the standard weights and measures of the metric system for the use of the States, respectively." (Joint resolution of Congress approved July 27, 1866.)

UNITED STATES JOINS IN ESTABLISHING INTERNATIONAL BUREAU

"The high contracting parties engage to establish and maintain, at their common expense, a scientific and permanent international bureau [5] of weights

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[5] This bureau has the custody of the international standards of the metric system, to which all metric prototypes of the world are referred for verification. It was established and is maintained jointly by all the principal governments of the world.

and measures, the location of which shall be at Paris." (Extract from convention of 1875, signed for the United States by the United States ambassador to France.)

CONGRESS ADOPTS THE METRIC UNITS FOR ELECTRICAL MEASURES

It was enacted by the Senate and House of Representatives that the international electrical units based on the metric system "shall be the legal units of electrical measure in the United States." (Revised Statutes of the United States, Supplement, vol. 2, chap. 131, 1894.)

METRIC SYSTEM REQUIRED IN THE MEDICAL WORK OF THE NAVY DEPARTMENT

"The metric system of weights and measures shall hereafter be employed in the Medical Department of the Navy." (Order approved by the Secretary of the Navy, Apr. 15, 1878.)

METRIC SYSTEM REQUIRED IN MEDICAL WORK OF WAR DEPARTMENT

"All requisitions, invoices, receipts and returns, pertaining to medical supplies will be in accordance with the metric system of weights and measures. After the 30th day of June, 1894, the use of this system in writing official prescriptions is desired; on and after the 1st day of January, 1895, such use is hereby ordered." (Order approved by Secretary of War Apr. 13, 1894.)

METRIC SYSTEM RECOGNIZED AND ESTABLISHED IN PORTO RICO

"The metric system of weights and measures * * * is recognized and established in Porto Rico for use in all industrial and commercial transactions." (Acts, 1913, legislative assembly.)

METRIC SYSTEM MADE THE LEGAL SYSTEM IN THE PHILIPPINE ISLANDS

"The metrical system of weights and measures as authorized by sections 3569 and 3570 of the Revised Statutes of the United States and at present in use in the Philippine Islands shall be continued." (Philippine tariff, rev. law, 1909; Stat. L., vol. 36, pt. 1, ch. 8, sec. 9, p. 137.)

METRIC SYSTEM REQUIRED IN UNITED STATES PUBLIC HEALTH SERVICE

"Officers shall, for all official, medical, and pharmacal purposes, make use of the metric system of weights and measures. In expressing quantities by weight the terms of 'gram' and 'centigram,' and in expressing quantity by measure the term 'cubic-centimeter,' only shall be employed." (Regulation promulgated by the President Nov. 21, 1902.)

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