

## Appendix IV

# Weights and Measures

[For assistance on metric usage, call or write the Office of Metric Programs, U.S. Department of Commerce, Washington, DC 20230 (301-975-3690) Internet site <<http://www.nist.gov/metric/>>]

Symbol	When you know conventional	Multiply by	To find metric	Symbol
in	inch	2.54	centimeter	cm
ft	foot	30.48	centimeter	cm
yd	yard	0.91	meter	m
mi	mile	1.61	kilometer	km
in <sup>2</sup>	square inch	6.45	square centimeter	cm <sup>2</sup>
ft <sup>2</sup>	square foot	0.09	square meter	m <sup>2</sup>
yd <sup>2</sup>	square yard	0.84	square meter	m <sup>2</sup>
mi <sup>2</sup>	square mile	2.59	square kilometer	km <sup>2</sup>
	acre	0.41	hectare	ha
oz	ounce <sup>1</sup>	28.35	gram	g
lb	pound <sup>1</sup>	.45	kilograms	kg
oz (troy)	ounce <sup>2</sup>	31.10	gram	g
	short ton (2,000 lb)	0.91	metric ton	t
	long ton (2,240 lb)	1.02	metric ton	t
fl oz	fluid ounce	29.57	milliliter	mL
c	cup	0.24	liter	L
pt	pint	0.47	liter	L
qt	quart	0.95	liter	L
gal	gallon	3.78	liter	L
ft <sup>3</sup>	cubic foot	0.03	cubic meter	m <sup>3</sup>
yd <sup>3</sup>	cubic yard	0.76	cubic meter	m <sup>3</sup>
F	degrees Fahrenheit (subtract 32)	0.55	degrees Celsius	C

  

Symbol	When you know metric	Multiply by	To find conventional	Symbol
cm	centimeter	0.39	inch	in
cm	centimeter	0.33	foot	ft
m	meter	1.09	yard	yd
km	kilometer	0.62	mile	mi
cm <sup>2</sup>	square centimeter	0.15	square inch	in <sup>2</sup>
m <sup>2</sup>	square meter	10.76	square foot	ft <sup>2</sup>
m <sup>2</sup>	square meter	1.20	square yard	yd <sup>2</sup>
km <sup>2</sup>	square kilometer	0.39	square mile	mi <sup>2</sup>
ha	hectare	2.47	acre	
g	gram	.035	ounce <sup>1</sup>	oz
kg	kilogram	2.21	pounds	lb <sup>1</sup>
g	gram	.032	ounce <sup>2</sup>	oz (troy)
t	metric ton	1.10	short ton (2,000 lb)	
t	metric ton	0.98	long ton (2,240 lb)	
mL	milliliter	0.03	fluid ounce	fl oz
L	liter	4.24	cup	c
L	liter	2.13	pint (liquid)	pt
L	liter	1.05	quart (liquid)	qt
L	liter	0.26	gallon	gal
m <sup>3</sup>	cubic meter	35.32	cubic foot	ft <sup>3</sup>
m <sup>3</sup>	cubic meter	1.32	cubic yard	yd <sup>3</sup>
C	degrees Celsius (after multiplying, add 32)	1.80	degrees Fahrenheit	F

<sup>1</sup> For weighing ordinary commodities.    <sup>2</sup> For weighing precious metals, jewels, etc.