

# Appendix H

## Conversion Tables: Metric to Imperial Units Table

Metric		Imperial	
<b>Length</b>			
1 kilometer	(km)	= 0.621	miles
1 meter	(m)	= 3.281	feet (ft)
1 centimeter	(cm)	= 0.394	inches (in)
1 millimeter	(mm)	= 0.039	inches (in)
<b>Area</b>			
1 hectare	(ha)	= 2.47	acres
1 square meter	(m <sup>2</sup> )	= 10.76	square feet (ft <sup>2</sup> )
<b>Volume</b>			
1 hectare-meter	(ha-m)	= 8.108	acre-feet (ac-ft)
1 cubic meter	(m <sup>3</sup> )	= 264.2	U.S. gallons (gal)
1 cubic meter	(m <sup>3</sup> )	= 35.31	cubic feet (ft <sup>3</sup> )
1 litre	(L)	= 0.0353	cubic feet (ft <sup>3</sup> )
1 litre(L)		= 0.264	U.S. gallons (gal)
<b>Flow</b>			
1 cubic meter per sec	(m <sup>3</sup> /s)	= 15852	U.S. gallon per min (U.S. gpm)
1 cubic meter per sec	(m <sup>3</sup> /s)	= 35.31	cubic feet per sec (cfs)
1 litre per sec	(L/s)	= 15.85	U.S. gallons per min (U.S. gpm)
1 litre per min	(L/min)	= 0.265	U.S. gallons per min (U.S. gpm)
<b>Pressure</b>			
1 kilopascal	(Kpa)	= 0.145	pounds per sq. inch (psi)
1 kilopascal	(Kpa)	= 0.335	feet head of water (60°F)
1 meter of water (at 15.55°C)	(m)	= 1.42	pounds per sq. inch (psi)
1 bar		= 0.98	atmosphere
1 bar		= 100	kilopascals
1 bar		= 14.5	pounds per square inch
1 atmosphere		= 101.3	kilopascals
1 atmosphere		= 14.7	pounds per square inch
<b>Energy</b>			
1 kilowatt (hp)	(kW)	= 1.34	horsepower
<b>Concentration</b>			
1 ppm		= 1	mg/L

# Conversion Table: Imperial to Metric and Other Units

Imperial		Metric	
<b>Length</b>			
1 mile		= 1.61	kilometers(km)
1 foot	(ft)	= 0.3048	meters (m)
1 inch	(in)	= 2.54	centimeters (cm)
1 inch	(in)	= 25.4	millimeters (mm)
<b>Area</b>			
1 acre		= 0.405	hectares (ha)
1 acre		= 43,560	square feet (ft <sup>2</sup> )
<b>Volume</b>			
1 acre-foot	(ac-ft)	= 0.1233	hectare-meters (ha-m)
1 acre-inch	(ac-in)	= 27,152	U.S. gallons (gal)
1 U.S. gallon	(gal)	= 0.0038	cubic meters (m <sup>3</sup> )
1 cubic foot	(ft <sup>3</sup> )	= 28.33	litres (L)
1 cubic foot	(ft <sup>3</sup> )	= 7.48	U.S. gallons (gal)
1 U.S. gallon	(gal)	= 3.79	litres (L)
1 U.S. gallon	(gal)	= 0.833	imperial gallons (L)
1 Imp. Gallon	(gal)	= 4.55	litres (L)
<b>Flow</b>			
1 U.S. gallon per min	(US gpm)	= 3.79	litres per min (L/min)
1 U.S. gallon per min	(US gpm)	= 0.063	litres per sec (L/sec)
1 Imp gallon per min	(Imp gpm)	= 4.55	litres per min (L/min)
1 cubic foot per sec	(cfs)	= 1666.6	litres per min (L/min)
<b>Pressure</b>			
1 pound per square inch	(psi)	= 6.90	kilopascals (Kpa)
1 pound per square inch	(psi)	= 2.31	feet of water (ft)
1 pound per square inch	(psi)	= 0.70	meters of water (m)
1 foot head of water		= 2.98	kilopascals (Kpa)
1 atmosphere		= 101.3	kilopascals (Kpa)
		= 14.7	pounds per square inch
<b>Energy</b>			
1 horsepower	(hp)	= 0.746	kilowatts (kW)
<b>Concentration</b>			
1 ppm		= 1	mg/L