

Section: Appendix A
Area and Length Conversions

Area

	Multiply	by	To Obtain
acres (ac) ^a		0.4047	hectares
hectares (ha)		2.4710	acres
hectares (ha)		0.0039	square miles
hectares (ha)		10000	square meters
square kilometer (km ²)		247.10	acres
square kilometer (km ²)		0.3861	square miles
square kilometer (km ²)		100	hectares
square mile (mi ²)		258.9990	hectares
square mile (mi ²)		2.5900	square kilometers
square mile (mi ²)		640	acres
square yards (yd ²)		0.8361	square meters
square meters (m ²)		1.1960	square yards
square foot (ft ²)		0.0929	square meters
square meters (m ²)		10.7639	square feet
square inches (in ²)		6.4516	square centimeters (exactly)
square decimeter (dm ²)		15.5000	square inches
square centimeters (cm ²)		0.1550	square inches
square millimeter (mm ²)		0.0020	square inches
square feet (ft ²)		929.03	square centimeters
square rods (rd ²), sq pole, or sq perch		25.2930	square meters

Length

	Multiply	by	To Obtain
miles (mi)		1.6093	kilometers
miles (mi)		1,609.34	meters
miles (mi)		1,760.00	yards
miles (mi)		5,280.00	feet
kilometers (km)		0.6214	miles
kilometers (km)		1,000.00	meters
kilometers (km)		1,093.60	yards
kilometers (km)		3,281.00	feet
feet (ft)		0.3048	meters
meters (m)		3.2808	feet
yard (yd)		0.9144	meters
meters (m)		1.0936	yards
inches (in)		2.54	centimeters
centimeters (cm)		0.3937	inches

Source:

National Institute of Standards and Technology, General Tables of Units and Measurements
http://ts.nist.gov/WeightsAndMeasures/Publications/upload/h4402_appenc.pdf

^a An acre is a unit of area containing 43,560 square feet. It is not necessarily square, or even rectangular. If a one acre area is a perfect square, then the length of a side is equal to the square root of 43,560 or about 208.71 feet.