

# Conversion Factors

| Length: (L)   | Area: (L <sup>2</sup> )   | Weight: (M)   |
|---|---|---|
| 1 mm = 0.1 cm<br>= 0.001 m<br>= 0.0394 in   | 1 mm <sup>2</sup> = 0.01 cm <sup>2</sup><br>= 0.00155 in <sup>2</sup>   | 1 Kg = 2.205 lb<br>= 1,000 g<br>= 1 x 10 <sup>6</sup> mg  |
| 1 cm = 0.01 m<br>= 0.394 in<br>= 0.0328 ft  | 1 cm <sup>2</sup> = 100 mm <sup>2</sup><br>= 0.1550 in <sup>2</sup>   | 1 g = 1000 mg<br>= 0.001 kg<br>= 0.0353 oz<br>= 0.0022 lb   |
| 1 m = 100 cm<br>= 3.281 ft<br>= 39.37 in  | 1 m <sup>2</sup> = 10,000 cm <sup>2</sup><br>= 1,550 in <sup>2</sup><br>= 10.76 ft <sup>2</sup>   | 1 Metric ton = 1,000 kg<br>= 2,205 lb   |
| 1 km = 100,000 cm<br>= 1,000 m<br>= 3,281 ft<br>= 0.624 mi.                           | 1 ha = 10,000 m <sup>2</sup><br>= 2.471 ac<br>= 0.003861 mi <sup>2</sup>  | 1 lb = 0.4536 kg<br>= 453.6 g<br>= 5 x 10 <sup>-4</sup> Tons<br>= 16 oz   |
| 1 in = 25.4 mm<br>= 2.54 cm<br>= 0.083 ft   | 1 km <sup>2</sup> = 247.1 ac<br>= 0.3861 mi <sup>2</sup><br>= 1 x 10 <sup>6</sup> m <sup>2</sup><br>= 1.076 x 10 <sup>7</sup> ft <sup>2</sup> | 1 Ton = 2,000 lb<br>= 907.2 kg  |
| 1 ft = 12 in<br>= 30.48 cm<br>= 0.3048 m  | 1 in <sup>2</sup> = 6.452 cm <sup>2</sup><br>= 645.2 mm <sup>2</sup>  | (1 cm <sup>3</sup> = 1 ml) which weighs 1 gm<br>(weight for water only)   |
| 1 yd = 36 in = 3 ft<br>= 91.44 cm<br>= 0.9144 m                                       | 1 ft <sup>2</sup> = 144 in <sup>2</sup><br>= 929.0 cm <sup>2</sup>  | Volume<br>(L <sup>3</sup> )   |
| 1 mi = 5,280 ft<br>= 1609 m<br>= 1.609 km   | 1 yd <sup>2</sup> = 9 ft <sup>2</sup><br>= 8,361 cm <sup>2</sup>  | 1 ml = 1 cm <sup>3</sup><br>= 0.0610 in <sup>3</sup>  |
| Time  | 1 ac = 43,560 ft <sup>2</sup><br>= 4,840 yd <sup>2</sup><br>= 4,047 m <sup>2</sup><br>= 0.4047 ha   | 1 l = 61.02 in <sup>3</sup><br>= 0.2642 US Gal<br>= 0.03531 ft <sup>3</sup><br>= 1,000 ml<br>= 1,000 cm <sup>3</sup>                    |
| 1 Hr = 3600 sec<br>1 Day = 24 Hr<br>= 86400 sec<br>1 yr = 3.155 x 10 <sup>7</sup> sec | 1 mi <sup>2</sup> = 27,878,400 ft <sup>2</sup><br>= 640 ac<br>= 259 ha<br>= 2.590 km <sup>2</sup>   | 1 ft <sup>3</sup> = 1,728 in <sup>3</sup><br>= 7.480 US Gal<br>= 28,317 cm <sup>3</sup><br>= 28.32 l<br>= 0.02832 m <sup>3</sup>        |
| Temperature   |   | 1 ac-ft = 43560 ft <sup>3</sup><br>= 325,851 US Gal<br>= 1.23 x 10 <sup>6</sup> l<br>= 1,233.49 m <sup>3</sup>                          |
| C° = 5/9(F°-32)<br>F° = 9/5C° + 32  |   | 1 m <sup>3</sup> = 35.31 ft <sup>3</sup><br>= 264.2 US Gal<br>= 8.106 x 10 <sup>-4</sup> ac-ft<br>= 1 x 10 <sup>6</sup> cm <sup>3</sup> |
|   |   | 1 cm <sup>3</sup> = 0.0610 in <sup>3</sup><br>= 1 x 10 <sup>-6</sup> m <sup>3</sup>   |