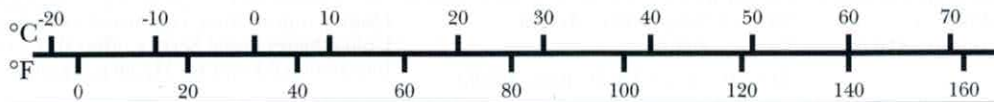


CONVERSION: U.S. & METRIC MEASURES

| U.S. Units <sup>z</sup>                     | Metric Equivalents                                   | Conversion Factors<br>Metric to U.S. |
|---|--|--------------------------------------|
| <u>Length or Thickness</u>                  |  |                                      |
| 1 mile                                      | = 1.6093 kilometers (km)                             | × 0.6214                             |
| 1 yard                                      | = 0.9144 meters (m)                                  | × 1.0936                             |
| 1 foot (ft)                                 | = 0.3048 m   | × 3.2808                             |
| 1 inch                                      | = 2.5400 centimeters (cm)                            | × 0.3937                             |
| 1 mil (1/1000 inch)                         | = 0.0254 millimeters (mm)                            | × 39.3700                            |
| <u>Area</u>                                 |  |                                      |
| 1 square inch (inch <sup>2</sup> )          | = 6.4516 square centimeters (cm <sup>2</sup> )       | × 0.1550                             |
| 1 square yard (yd <sup>2</sup> )            | = 0.8361 square meters (m <sup>2</sup> )             | × 1.1960                             |
| 1 acre                                      | = 0.4047 hectares (ha)                               | × 2.4710                             |
| 1 section (mile <sup>2</sup> )              | = 258.988 ha   | × 0.0039                             |
| <u>Volume or Capacity</u>                   |  |                                      |
| 1 pint                                      | = 0.4732 liters                                      | × 2.1133                             |
| 1 gallon (gal)                              | = 3.7853 liters                                      | × 0.2642                             |
| 1 bushel (bu)                               | = 35.2381 liters                                     | × 0.0284                             |
| 1 acre-inch                                 | = 102.7938 cubic meters (m <sup>3</sup> )            | × 0.0097                             |
| 1 Fla. field box (4,800 inch <sup>3</sup> ) | = 0.7866 hectoliters (hl)                            | × 1.2713                             |
| 1 Fla. citrus carton (4/5 bu)               | = 0.2822 hl  | × 3.5436                             |
| <u>Weight</u>                               |  |                                      |
| 1 ounce (oz)                                | = 28.3495 grams (g)                                  | × 0.0353                             |
| 1 pound (lb.)                               | = 0.4536 kilograms (kg)                              | × 2.2046                             |
| 1 hundredweight (cwt)                       | = 45.3592 kg   | × 0.0220                             |
| 1 ton                                       | = 0.9072 metric tonnes                               | × 1.1022                             |
| <u>Rate or Yield</u>                        |  |                                      |
| 1 grain/pound (gr/lb.)                      | = 0.1429 grams/kilogram (g/kg)                       | × 7.0000                             |
| 1 pound/acre (lb./acre)                     | = 1.1208 kilogram/hectare (kg/ha)                    | × 0.8922                             |
| 1 ton/acre                                  | = 2.2417 metric tonnes/hectare                       | × 0.4461                             |
| 1 gallon/acre (gal/acre)                    | = 9.346 liters/hectare                               | × 0.1070                             |
| 1 Fla. field box/acre                       | = 1.9437 hectoliters/hectare (hl/ha)                 | × 0.5162                             |
| 1 bushel/acre (bu/acre)                     | = 0.8705 hl/ha                                       | × 1.1488                             |
| 1 pound/100 gallons (lb./100 gal)           | = 1.1983 grams/liter (g/liter)                       | × 0.8345                             |
| 1 cubic foot/minute (ft <sup>3</sup> /min)  | = 0.4720 liters/second (liters/sec)                  | × 2.1186                             |
| <u>Energy, Light, &amp; Pressure</u>        |  |                                      |
| 1 horsepower (HP)                           | = 0.7457 kilowatts (kw)                              | × 1.3410                             |
| 1 foot candle (ft-cp)                       | = 10.7639 lux  | × 0.0929                             |
| 1 pound/square inch (psi)                   | = 70.3069 grams/cm <sup>2</sup>                      | × 0.0142                             |
| 1 British Thermal Unit (BTU)                | = 0.2530 kilogram calories (kg-cal)                  | × 3.9526                             |
| <u>Temperature</u>                          |  |                                      |
| Fahrenheit = $\frac{(C \times 9) + 32}{5}$  | Celsius (Centigrade) = $\frac{(F - 32) \times 5}{9}$ |                                      |



<sup>z</sup>Note that these are United States measures which often differ from British, e.g., the ton, hundredweight, bushel, gallon, etc.