

Part XVI.

Commonly Used Weights and Measures

| Row Length per Acre | | |
|----------------------|----------------------|---------------------|
| Row spacing (inches) | Total length (yards) | Total length (feet) |
| 12 | 14,520 | 43,560 |
| 20 | 8,712 | 26,136 |
| 24 | 7,260 | 21,780 |
| 30 | 5,808 | 17,424 |
| 36 | 4,840 | 14,520 |
| 40 | 4,356 | 13,069 |
| 42 | 4,149 | 12,446 |

| Mass and Weight | | |
|-----------------|-----------|---------------------------|
| Unit | Grams | Approximate US equivalent |
| Metric ton | 1,000,000 | 1.1 tons |
| Quintal | 100,000 | 0.62 mile |
| Kilogram | 1,000 | 106.36 yards |
| Hectogram | 100 | 32.81 feet |
| Gram | 10 | 39.37 inches |
| Decigram | 0.10 | 3.94 inches |
| Centigram | 0.01 | 0.39 inch |
| Milligram | 0.001 | 0.04 inch |

| Metric System - Length | | |
|------------------------|------------------|---------------------------|
| Unit | Number of meters | Approximate US equivalent |
| Kilometer | 1,000 | 0.62 mile |
| Hectometer | 100 | 109.36 yards |
| Decameter | 10 | 32.81 feet |
| Meter | 1 | 39.37 inches |
| Decimeter | 0.1 | 3.94 inches |
| Centimeter | 0.01 | 0.39 inch |
| Millimeter | 0.001 | 0.01 inch |

| Metric System - Area | | |
|----------------------|-------------------------|---------------------------|
| Unit | Number of square meters | Approximate US equivalent |
| Square kilometer | 1,000,000 | 0.3861 square mile |
| Hectare | 10,000 | 2.47 acres |
| Are | 100 | 119.6 square yards |
| Centare | 1 | 10.76 square feet |
| Square centimeter | 0.000001 | 0.155 square inch |

| Metric System - Volume | | |
|------------------------|------------------------|---------------------------|
| Unit | Number of cubic meters | Approximate US equivalent |
| Decastere | 10 | 13,100 cubic yards |
| Stere | 1 | 1,310 cubic yards |
| Decistere | 0.10 | 3.53 cubic feet |
| Cubic centimeter | 0.000001 | 0.061 cubic inch |

| Metric System - Capacity | | | | |
|--------------------------|------------------|---------------------------------------|--------------|-------------------|
| Unit | Number of liters | Approximate US measurement equivalent | | |
| | | Cubic | Dry | Liquid |
| Kiloliter | 1,000 | 1.31 cubic yards | | |
| Hectoliter | 100 | 3.53 cubic feet | 2.84 bushels | |
| Decaliter | 10 | 0.35 cubic feet | 1.14 pecks | 2.64 gallons |
| Liter | 1 | 61.02 cubic inches | 0.908 quart | 1.057 quarts |
| Deciliter | 0.10 | 6.1 cubic inches | 0.18 pint | 0.210 pint |
| Centiliter | 0.01 | 0.60 cubic inches | | 0.338 fluid ounce |
| Milliliter | 0.001 | 0.06 cubic inch | | 0.28 fluid dram |

| Energy Values | |
|----------------------------|--|
| One horsepower (746 watts) | The force required to raise 33,000 lbs by 1 foot per minute. |
| British thermal unit (Btu) | 252 calories. |
| Calorie | The amount of heat needed to raise the temperature of 1 gram of water by one degree centigrade. |
| Watt | The power developed in a circuit by a current of 1 ampere flowing through a potential difference of 1 volt (1/746 horsepower). |

