

**TABLE A-17. CONVERSION TABLES FOR COMMON WEIGHTS AND MEASURES**

**Metric conversions**

1 ounce = 28.35 grams  
 1 pound = 454 grams  
 2.2 pounds = 1 kilogram  
 1 quart = .946 liter  
 1 gram = 15.43 grains  
 1 metric ton = 2,204.7 pounds  
 1 inch = 2.54 centimeters  
 1 centimeter = 10 millimeters = .39 inches  
 1 meter = 39.37 inches  
 1 acre = .406 hectare

**Bushel weights and volumes**

Oats = 32 pounds/bushel	25 pounds/cubic foot
Barley = 48 pounds/bushel	38.4 pounds/cubic foot
Shelled corn = 56 pounds/bushel	44.8 pounds/cubic foot
Wheat = 60 pounds/bushel	48 pounds/cubic foot
Corn and cob meal = 70 pounds/bushel	28 pounds/cubic foot
Soybeans = 60 pounds/bushel	48 pounds/cubic foot
Rye = 56 pounds/bushel	44.8 pounds/cubic foot

**Weight of one quart of feed**

Barley, whole = 1.5 pounds  
 Barley, ground = 1.1 pounds  
 Beet pulp, dry = .7 pounds  
 Corn, shelled, ground = 1.5 pounds  
 Corn and cob meal = 1.4 pounds  
 Linseed meal = 1.3 pounds  
 Molasses, cane = 3 pounds  
 Oats, whole = 1 pound  
 Oats, ground = .7 pound  
 Rye, ground = 1.5 pounds  
 Soybeans, ground = 1.4 pounds  
 Wheat, ground = 1.7 pounds

**Weight conversions**

8 tablespoons = 1/4 pound  
 3 teaspoons = 1 tablespoon  
 1 pint = 1 pound  
 2 pints = 1 quart  
 4 quarts = 1 gallon = 8 pounds  
 2,000 pounds = 1 ton  
 16 ounces = 1 pound  
 27 cubic feet = 1 cubic yard  
 1 peck = 8 quarts  
 1 bushel = 4 pecks

**Volume conversion of hay and straw**

	Loose	Chopped	Bale (reg)
	lb/cu ft		
Alfalfa	4 to 4.4	5.5 to 7	6 to 10
Non-legume	3.3 to 4.4	5 to 6.7	6 to 8
Straw	2 to 3	5.7 to 8	4 to 5

**Other conversions**

1% = .01

1% = 10,000 parts per million (ppm)

1 megacalorie (Mcal) = 1,000 calories

1 calorie (big calorie) = 1,000 calories (small calorie)

1 Mcal = 1 therm