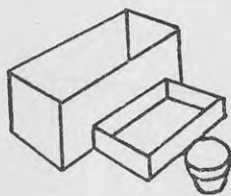


# WEIGHTS AND MEASURES IN FLOWER GARDEN



## Quantities of Soil

A standard apple case holds about 1 bushel. Most soil mixtures are made up to 1 bushel.

Standard soil mixtures based on the John Innes formula are as follows:—

Parts by bulk of	Seed-sowing compost	Potting compost
Loam .. .. .	2 parts	7 parts
Leafmould, peat, or compost ..	1 part	3 parts
Coarse river sand	1 part	2 parts

### To each bushel add

Superphosphate	1½ oz.	1½ oz.
Garden lime ..	¾ oz.	¾ oz.
Dried blood ..		1½ oz.
Sulphate of potash ..		¾ oz.

One bushel of soil will fill the boxes or pots of the following sizes:—

2½ x seed boxes measuring 19in. x 13½in. x 2in. deep

40 x 5in. pots

80 x 4in. pots

1 kerosene tin holds about 4 gallons or ½ bushel

21 bushels = 1 cubic yard



## Measures of Weight

British System	
16oz.	= 1lb.
14lb.	= 1 stone
112lb.	= 1cwt.
20cwt.	= 1 ton
2,240lb.	= 1 ton

Note: United States ton = 2,000lb. = 20 X 100lb., as the cwt. is not a standard U.S. measure

### Metric System

1,000 grams = 1 kilogram

### Relation of British and Metric Systems

28.4 grams	= 1oz.
454 grams	= 1lb.
1 kilogram	= 2.2lb. (= 2lb. 3oz. approx.)
0.454 kilograms	= 1lb.

## Weights of Fertilisers Contained in a 1lb. Jam Jar and a Quart Preserving Jar

(The weights are for the jar loosely filled to the base of the neck)

Fertiliser	1lb. Jar	Quart preserving Jar
Blood and bone ..	8oz.	1lb. 6oz.
Superphosphate ..	10oz.	1lb. 12oz.
Sulphate of ammonia	12oz.	2lb.
Sulphate of potash ..	15oz.	2lb. 12oz.
Garden lime ..	15oz.	2lb. 12oz.



## Measurement of Length and Area

### English System

#### Length

12in.	= 1ft.
3ft.	= 1yd.
22yds.	= 1 chain
1,760yds.	= 1 mile
5,280ft.	= 1 mile

#### Area

144 sq. in.	= 1 sq. ft.
9 sq. ft.	= 1 sq. yd.
484 sq. yds.	= 1 sq. chain
4,840 sq. yds.	= 1 acre
43,560 sq. ft.	= 1 acre
10 sq. chains	= 1 acre
640 acres	= 1 sq. mile

### Metric System

#### Length

10 millimetres	= 1 centimetre
100 centimetres	= 1 metre
1,000 metres	= 1 kilometre

#### Area

1 sq. metre	= 1 centiare
100 sq. metres	= 1 are
10,000 sq. metres	= 1 hectare

### Relation between English and Metric Systems

#### Length

1in.	= 2.54 centimetres
1ft.	= 30.48 centimetres
1yd.	= 0.914 metres
1 mile	= 1.61 kilometres
1 centimetre	= 0.39in.
1 metre	= 39.37in.
1 kilometre	= 0.62 miles

#### Area

1 are	= 119.6 sq. yds.
1 hectare	= 2,471 acres

### English Surveyor's Measure

#### Length

7.92in.	= 1 link
25 links	= 1 perch
16½ft.	= 1 perch
100 links	= 1 chain
66ft.	= 1 chain
10 chains	= 1 furlong
220yds.	= 1 furlong

#### Area

30½ sq. yds.	= 1 sq. perch
40 sq. perches	= 1 rood
4 roods	= 1 acre



## Weight of Dry Spray Materials in Level Tablespoons

	Tablespoons
Copper oxychloride ..	1 = 2
Copper sulphate ..	1 = 3½
Hydrated lime ..	1 = 4
Thiram wettable powder ..	1 = 3
Captan wettable powder ..	1 = 4
Colloidal sulphur powder ..	1 = 1½
Lead arsenate ..	1 = 3
Lindane wettable powder ..	1 = 4
DDT wettable powder ..	1 = 3

Note: Some manufacturers now state the quantity of spray material to use in tablespoons per gallon.

## Temperature

The British system of measuring temperature is based on the Fahrenheit scale (F.). The Continental and scientific system is based on the centigrade scale (C.).



A comparison of the two scales shows the following relationship.

	Degrees F.	Degrees C.
Freezing point ..	32	0
Boiling point ..	212	100
1 degree C. =	1.8 degrees F.	

(a) To convert centigrade to Fahrenheit multiply degrees C. by 1.8 and add 32. Example: 10°C. x 1.8 = 18 + 32 = 50°F. (b) To convert Fahrenheit to centigrade subtract 32 and divide by 1.8. Example: 50°F. - 32 = 18 ÷ 1.8 = 10°C.

Note: When meteorologists refer to "10 degrees of frost" the actual temperature Fahrenheit is 22°F., not -10°F.

## Measures of Liquid



### British (Imperial) System

2 teaspoons	= 1 dessertspoon
2 dessertspoons	= 1 tablespoon (tab.)
2 tablespoons	= 1 fl. oz.
20 fl. oz.	= 1 pint
2 pints	= 1 quart
4 quarts	= 1 gallon
160 fl. oz.	= 1 gallon

### U.S.

16 fl. oz.	= 1 pint
8 pints	= 1 gallon
128 fl. oz.	= 1 gallon

### Metric System

1 cub. centimetre (c.c.) = 1 millilitre (m.l.)  
1,000 c.c.s. or 1,000 m.l.s. = 1 litre

### Relation of British and Metric Systems

28.4 c.c.s. or m.l.s.	= 1 fl. oz.
4.54 litres	= 1 gallon
1.75 pints	= 1 litre

### Proportions of Liquids: Fluid Ounces per Gallon

1 : 16	= 10 fl. oz. per gallon
1 : 20	= 8 fl. oz. per gallon
1 : 25	= 6½ fl. oz. per gallon
1 : 40	= 4 fl. oz. per gallon
1 : 100	= 1½ fl. oz. per gallon
1 : 800	= 1½ teaspoons per gallon = (1/5 fl. oz.)