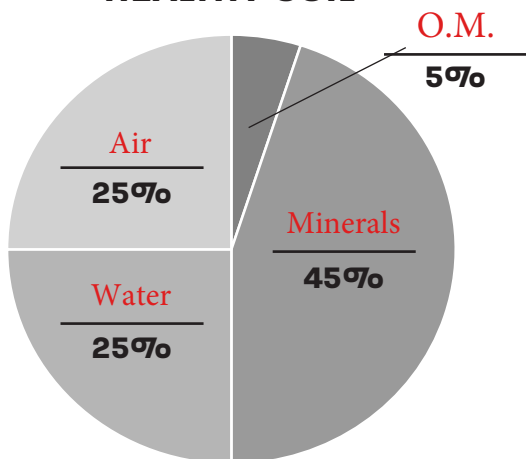


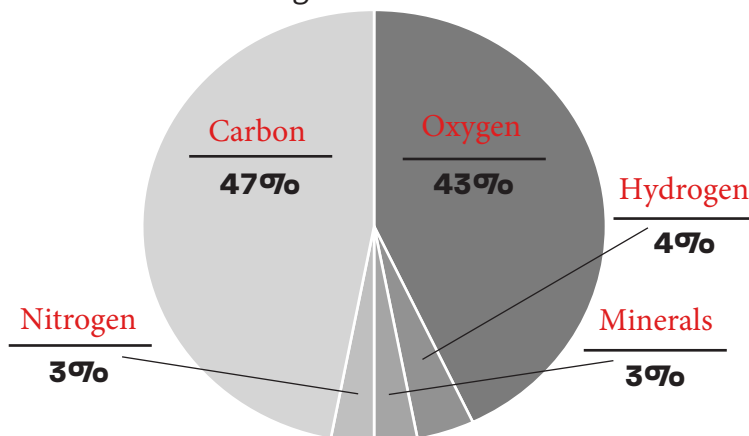
SOIL AND PLANT HEALTH 101

COMPOSITION OF HEALTHY SOIL



COMPOSITION OF HEALTHY PLANTS

** Dry Matter Basis*



**SOIL PENETROMETER
(Compaction Meter)**

- 200 psi or less microbes need & love
- 300 psi or less feeder roots need & love

MOST IMPORTANT MINERAL CONTENT OF A HEALTHY PLANT

- 2% Calcium
- .3% Phosphorus

WHY CARBON TO NITROGEN RATIOS MATTER

1. The C:N ratio of most agricultural soils is a 8:1
2. Beneficial soil microbes require at least a 16:1
3. Beneficial Mycorrhizal Fungi require at least a 25:1
4. Balanced aerobic compost consists of a 30:1

TOP 5 THINGS FOR SOIL AND PLANT HEALTH

1. Calcium (available)
2. Phosphorus (available)
3. Carbon (organic)
4. Oxygen
5. Beneficial aerobic soil microbes