Understanding Your Soils Can Make you Excited About Organic Farming

The New Biological Farmer: 15 Years of Learning
Soil System

Digestibility

Mature Crop

Young Green Crop

Nitrogen Credits

Feeding Bacteria

Soil System

Nitrogen Credits

Digestibility

Mature Crop

Young Green Crop

Nitrogen Credits

Feeding Bacteria
Green Carbon

Brown Carbon

Black Carbon

The Soil Food Web

Food - the feeding frenzy:

Carbon : Nitrogen Ratio

- Bacteria 5 : 1
- Fungi 20 : 1
- Protozoa 30 : 1
- Nematodes 100 : 1
- Humans 30 : 1
- Lettuce 30 : 1
- Wood 500 : 1
Mineral Percent Lbs/acre
Nitrogen 3.80% 201.1 lbs
Calcium 1.69% 89.6 lbs
Phosphorus 0.31% 37.7 lbs*
Magnesium 0.51% 26.9 lbs
Potassium 1.89% 120.4 lbs*
Sulfur 0.28% 14.7 lbs
Zn, Mn, Fe, Cu, B 14.26 lbs*

*S Value converted to P₂O₅ and K₂O

Dry Matter = 2.65 tons/acre