

Content Information and Location

Creating CO₂ To Maximize Growing Systems

Section #1 Plant Dry Matter Content

Summary section #1

CO₂ is the most important
Elements by weight percentage
Plant dry matter sources
Trace mineral percentage

Photosynthesis breakdown

Types of Carbohydrates in Plants

Monosaccharides
Disaccharides
Oligosaccharides
Polysaccharides

Plant Metabolites

Primary
Secondary

Molecular Formula

Amino Acids
Fatty Acids

Cellular Respiration Breakdown

Section #2 Microbes are the biological gatekeepers to essential minerals

Summary section #2

Industrial agriculture

Major focus on NPK

Elements
Can your plant access them

What about the other 96% of the plant
Soil solubility

Section #3 NPK vs Biology

Summary section #3

Chemical fertilizers diminish soil biology

Kills Beneficial microbes
Increase pathogens

Microbiology fixation of

CO₂
Essential plant elements & minerals

Content Information and Location

Creating CO₂ To Maximize Growing Systems

Section #4 Critical Importance of CO₂ to Mineral Ratios in Plant Growth and Function

[Summary section #4](#)

NPK vs CO₂ – 600 bu corn

Importance of CO₂ in plant

Nutrient & CO₂ requirements for

Corn
Wheat
Soybeans
Alfalfa - Example

Microbial activity by season

Section #5 Seed Treatment

[Summary section #5](#)

Seed Treatment

Solu-PLKS

Increased yield

Mycorrhizal Fungi

KingFisher corn trial

Sunflowers

Wheat

Soybeans

Corn

Alfalfa

Section #6 Power of Soil Microbes

[Summary section #6](#)

Mineralization

Nutrient cycling

Microbe to plant nutrition

Fungi & bacteria balance

Solubilized mineral exchange

Predatory microbes

Plants consume microbes

Section #7 Microbial Mineral Tea

[Summary section #7](#)

Making Tea

Brewer Examples

Creating CO₂ To Maximize Growing Systems

Section #8 Soil Health & Food Nutrition Affect Human Health

Summary section #8

Investment Analogy

Disease

Human dietary changes and metabolic disease

Soil degradation

Glyphosate

Soil and Food inseparably connected

Patents

Human metabolism

Gut microflora

What is Metabolic Syndrome?

Human disease timeline

Population breakdown

Section #9 Silent & Extremely Toxic Agricultural Radiation

Summary section #9

Current chemical plan is not sustainable

Global & United States fertilizer increases

Total Global chemical usage

Atomic cellular Damage

Total US chemical usage

Accumulated soil toxicity

Glyphosate

Soil persistence

Residual example

Adjuvant toxins

Transfer to humans

What now?

Return to biological systems

Be wise stewards