

Restoring the Bio-Geo-Chemical Nutrient Cycle Cover Crop Cocktail



Harvest the Sun's energy (living Plants)

EMPHASIS: More diversity, living roots as much as possible, less disturbance, & treat the soil like a habitat.

Cover Crop Cocktail
(grasses, legumes & brassicas)



Diversity/Collaboration/Synergy

SOIL BUILDING

Cover Crop provides habitat For pollinators & beneficial insects

Grazing Mgt.
(take half, leave half)



Grazed



Manure



Compost

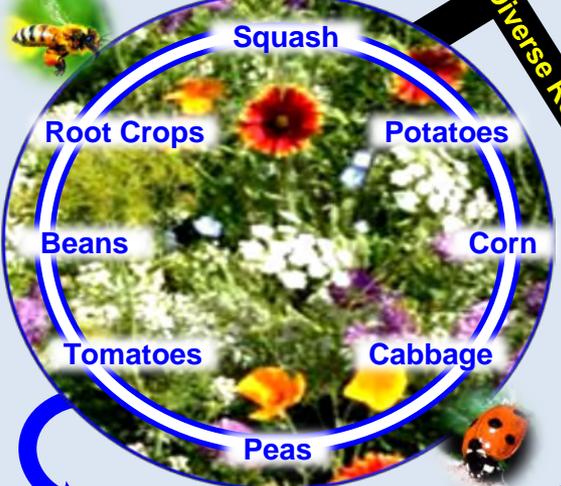
Decomposition

Feed the Soil Food Web (SFW) to facilitate nutrient cycling, build soil structure & maintain soil health



Plant Energy to Power your Agro Ecosystem

Diverse Crop Rotation
(Optimize the crop rotation effect)



Diverse Roots = Diverse SFW

Pollinators/Beneficial Insectary (to enhance crop rotation)



Rhizosphere
(roots with mycorrhizal fungi)

Root Exudates & Glomalin

Crop Residues (includes roots)



Predator-Prey relationships



Rain Simulator & Slake Test (Source: Ray the soil guy)



Soil particles are glued together by Glomalin

Tillage disrupts Ecosystem Processes



Humus Decomposition

Humus Formation



Humus



Slake Test