

A photograph of a hemp field with several large, developing flower buds in the foreground. The background is filled with more hemp plants and a bright sun that creates a rainbow effect across the sky. The text is overlaid on the image.

2020 HEMP CONFERENCE

THURSDAY, FEBRUARY 20, 2020

**Farmer Panel 1: Growing CBD Hemp for
Direct Sales**

**KISMET FARM
ROCHESTER, VT**

KISMETFARMVERMONT@GMAIL.COM

➤ KISMET FARM Rochester, VT

➤ Certified Organic Hemp

➤ Diversified

➤ Permaculture

➤ Korean Natural Farming

➤ Soil Food Web-Living Soils

➤ Regenerative Agriculture



5 Core Principles of **REGENERATIVE AGRICULTURE**



Increase biodiversity
Enrich soils
Improve watersheds
Provide ecosystem services
Reverse global climate change

HOW TO KEEP QUALITY HIGH & COSTS LOW

- Soil testing
- Microbe Herding – Compost and Teas
- Fermented Plants (fertilizer and IPM)
- Cover cropping
- No till
- Carbon Farming

Prepared For

Sample Information

Sample

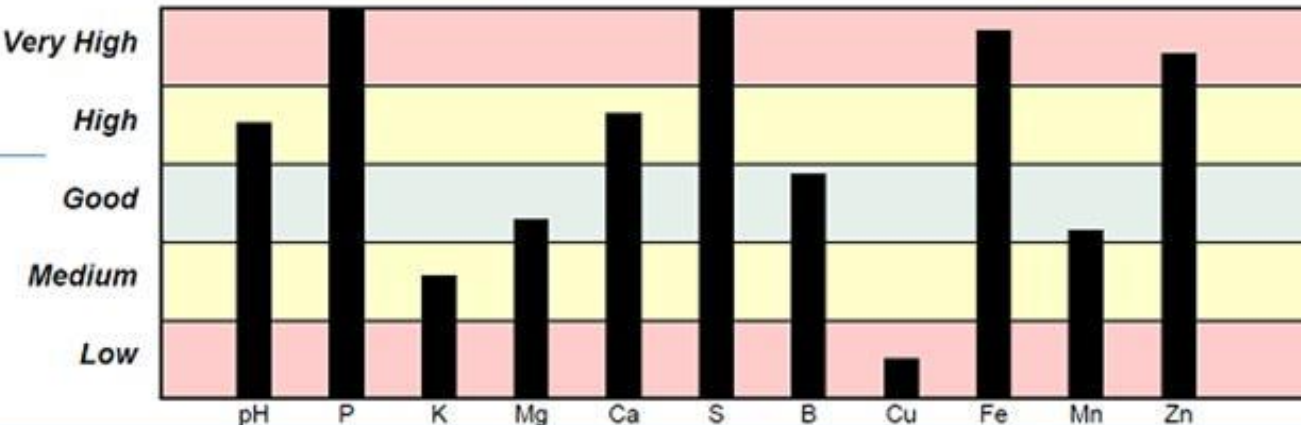
Lab Number

Acres

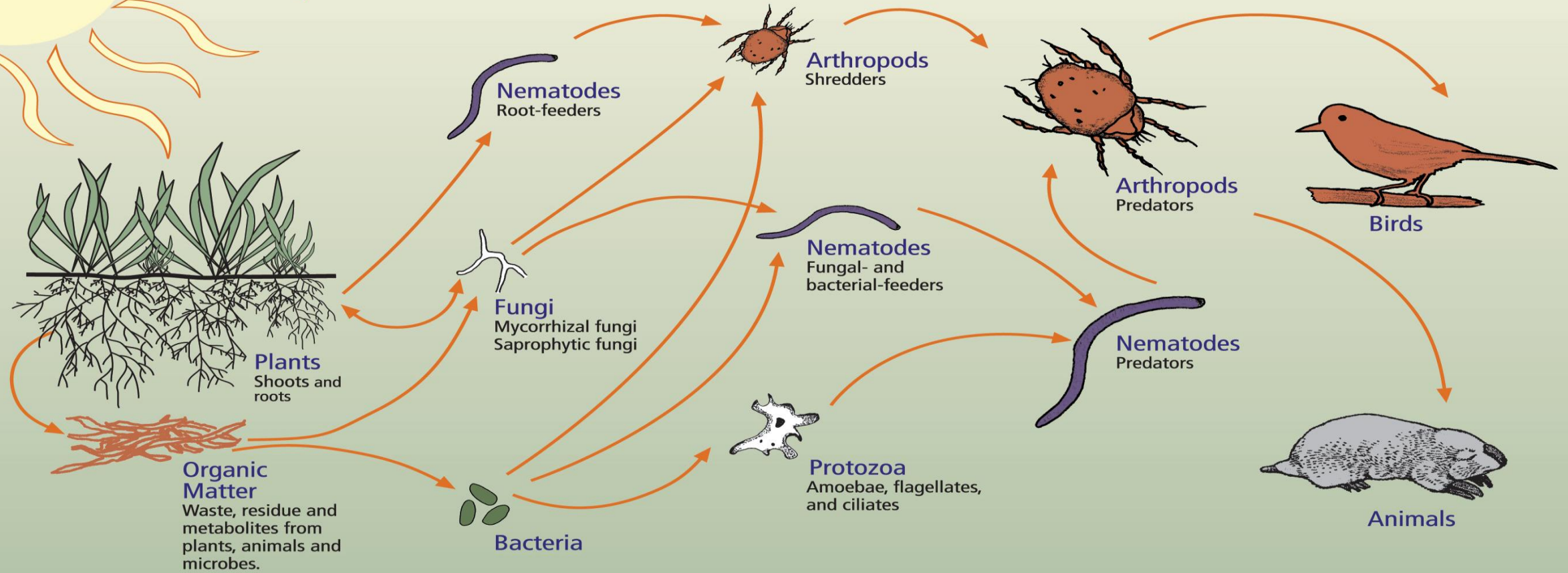
Sampled

Tested

Analysis	Result	Optimal	Analysis	Result	Optimal
Soil pH	7.5	5.5-6.8	Sulfur	m3-ppm 196	20-40
Buffer pH			Boron	m3-ppm 2.5	1.7-2.6
Organic Matter	% 0.8		Copper	m3-ppm 6.1	Varies
CEC	16.2		Iron	m3-ppm 173	9-40
K Saturation	% 1.9	2.0-4.0	Manganese	m3-ppm 78	Varies
Mg Saturation	% 13.2	10-20	Zinc	m3-ppm 24.6	3.9-10.9
Ca Saturation	% 81.9	50-70	Sodium	m3-ppm 110	
Na Saturation	% 3.0	0-10	Soluble Salts	mmhos/cm 0.78	0.00-0.50
K/Mg Ratio	0.5		Clay	% 15	
Ca/Mg Ratio	12.1		Sand	% 72	
Phosphorus	m3-ppm 514	40-70	Silt	% 13	
Potassium	m3-ppm 145	180-280	Texture	Sandy Loam	
Magnesium	m3-ppm 292	250-410			
Calcium	m3-ppm 3539	2200-3000			



The Soil Food Web



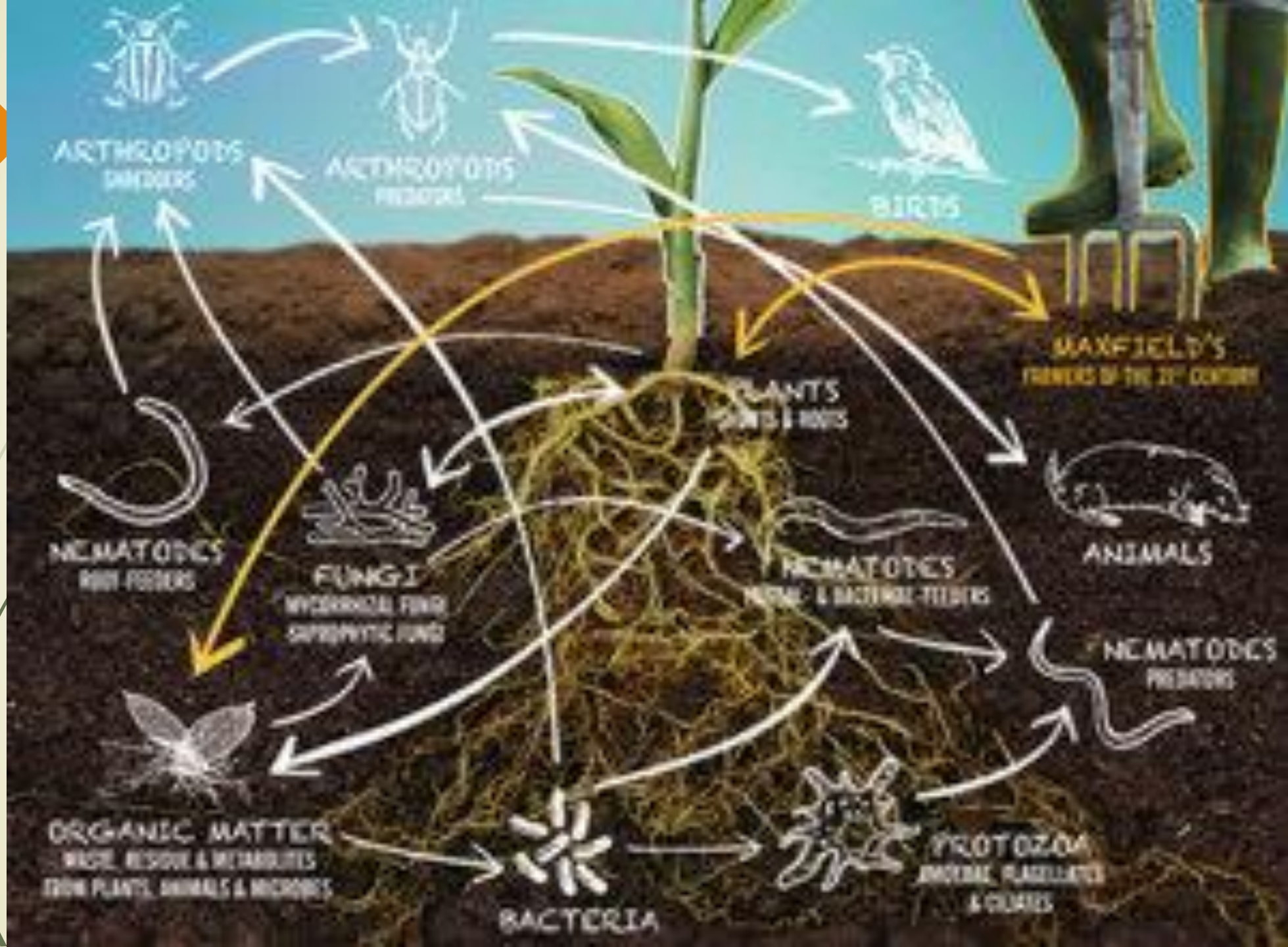
First trophic level:
Photosynthesizers

Second trophic level:
Decomposers
Mutualists
Pathogens, Parasites
Root-feeders

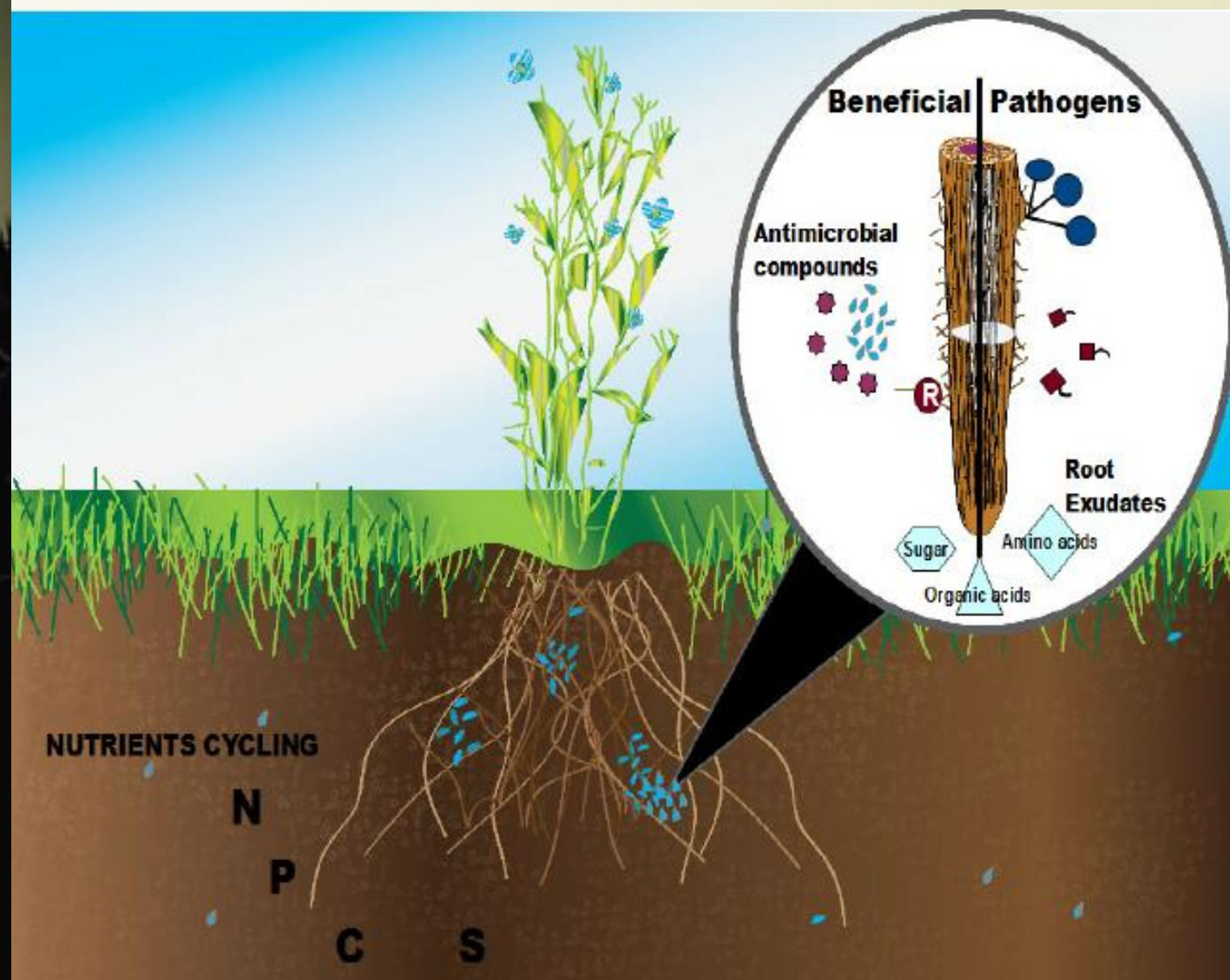
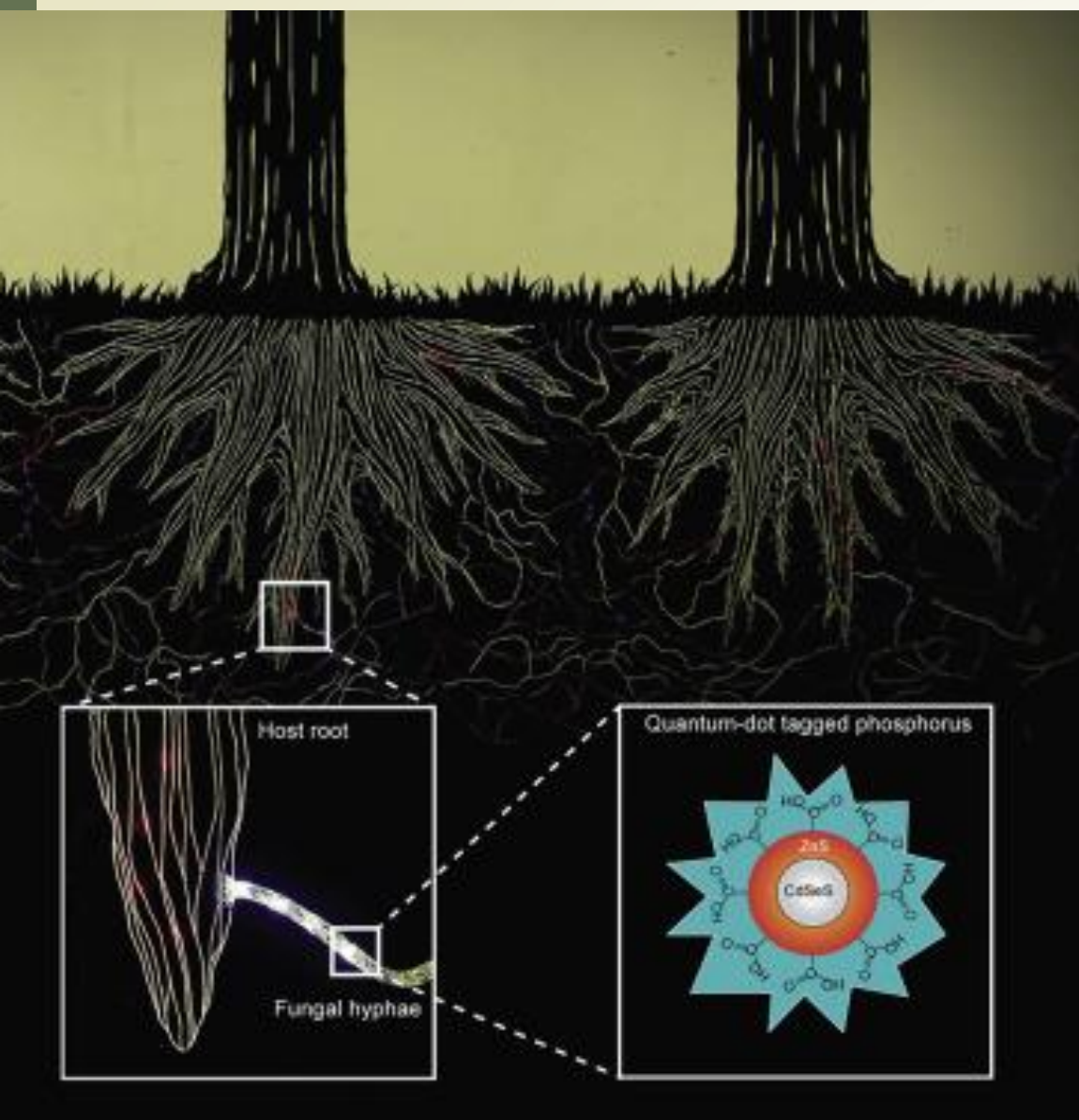
Third trophic level:
Shredders
Predators
Grazers

Fourth trophic level:
Higher level predators

Fifth and higher trophic levels:
Higher level predators

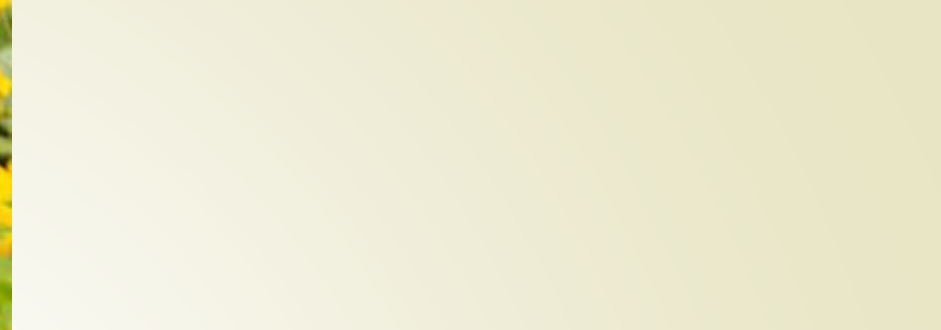








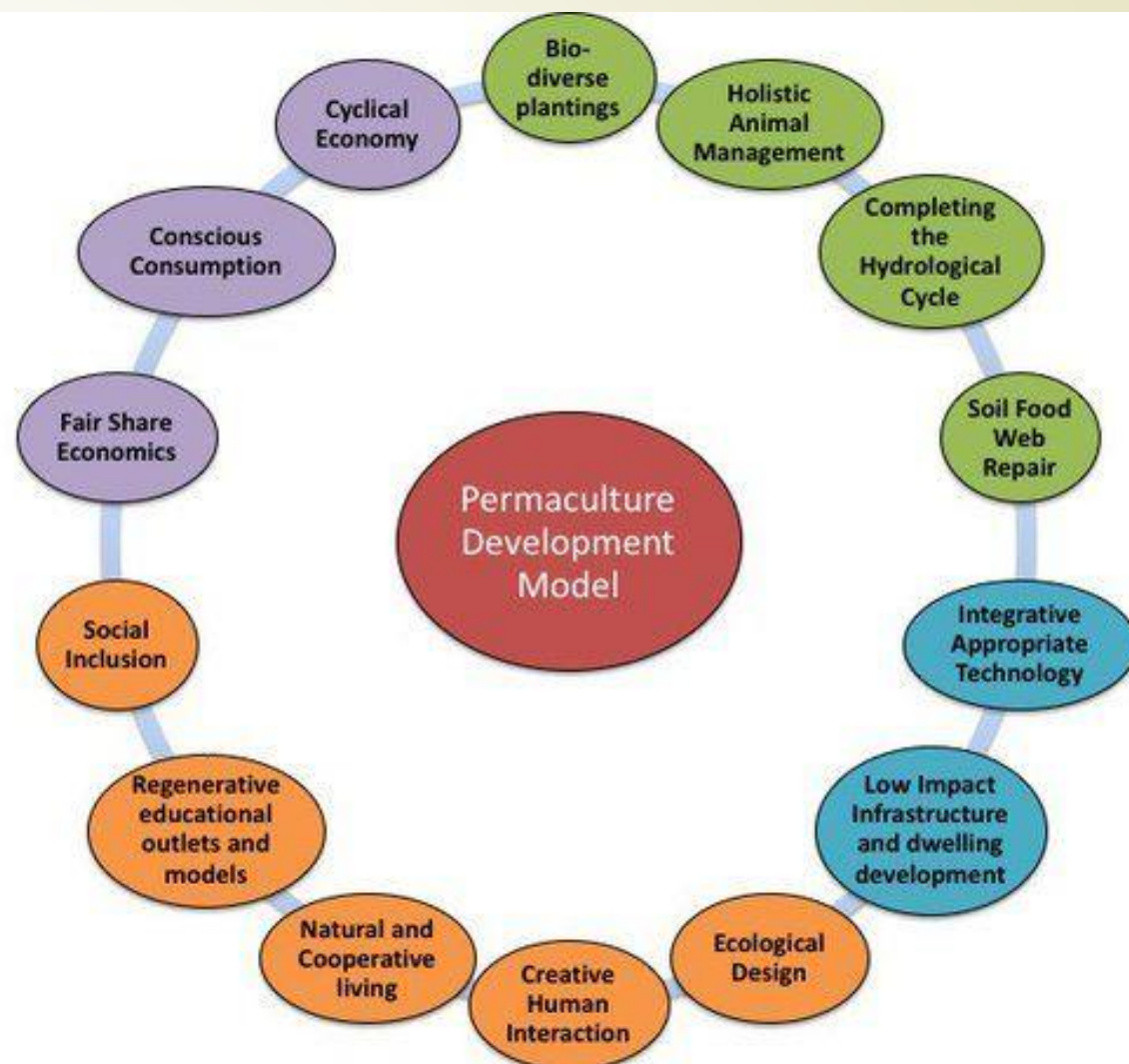
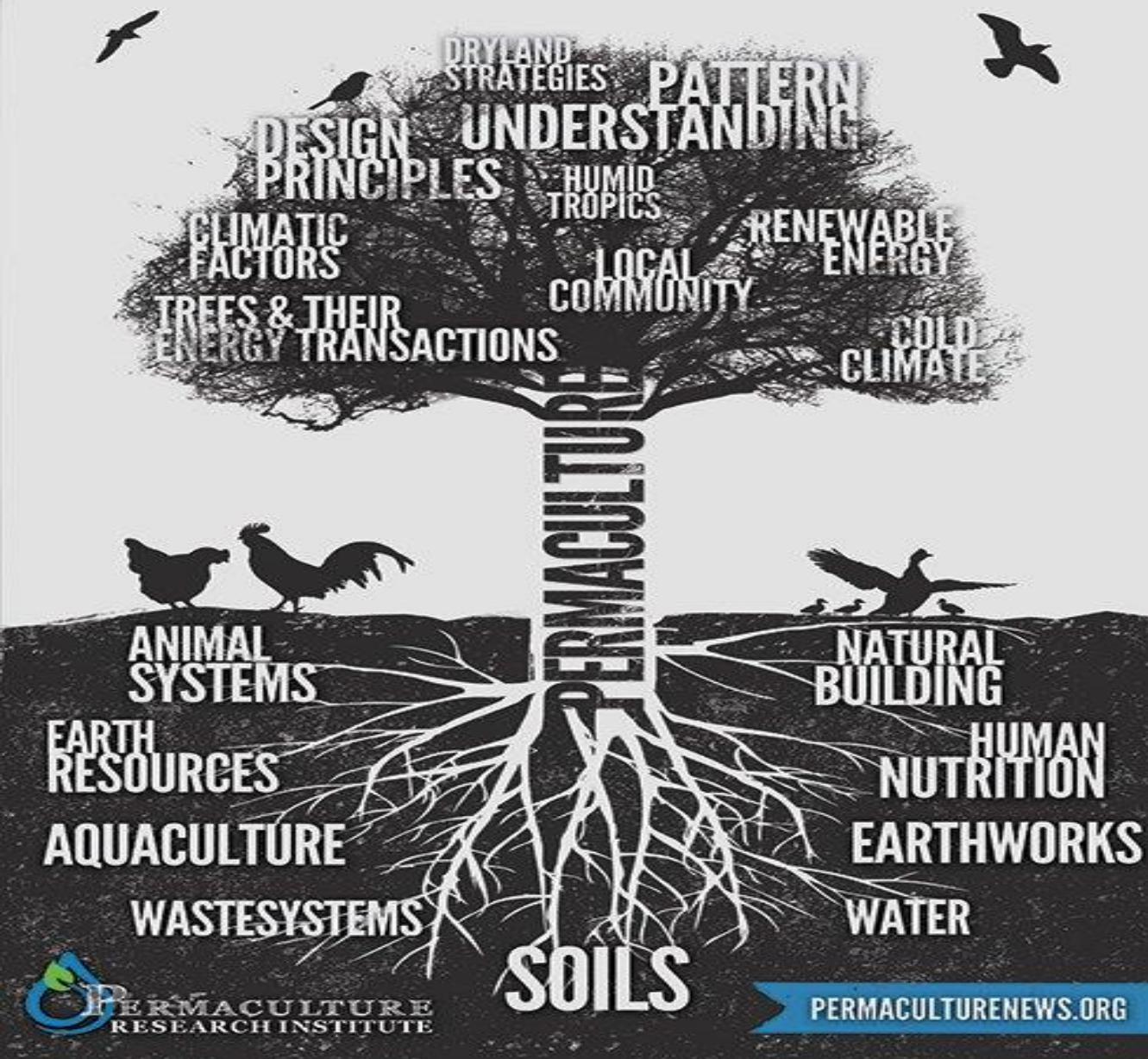








“ A system of design that provides all of the needs for humanity in a way that benefits the environment ”
Geoff Lawton









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