

- What Is Permaculture
- What is Soil
- How to build soil in your own backyard

A FEW POINTS

- I don't like boxes
- Cheap and lazy
- Know your farmer
- Barter
- Work in/with a community

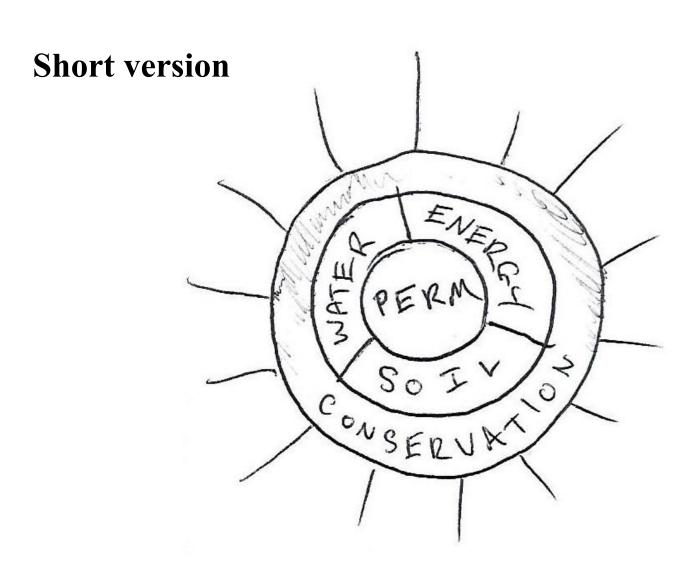


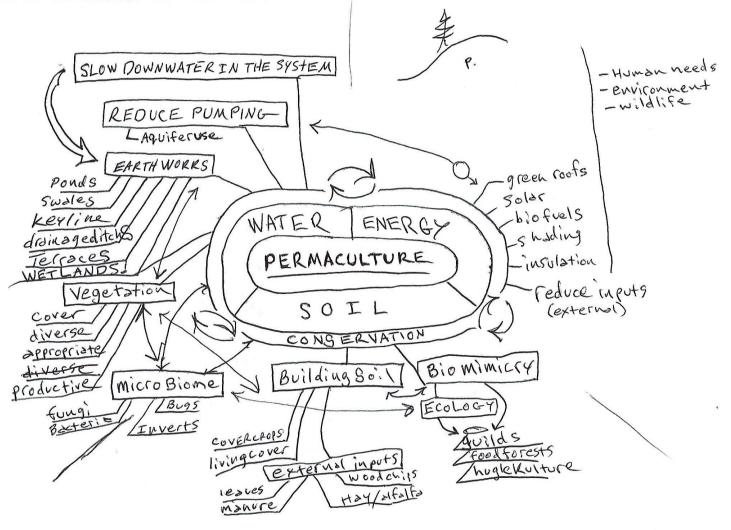
"The conscious design and maintenance of agriculturally productive systems which have the diversity, stability, and resilience of natural ecosystems. It is the harmonious integration of the landscape with people providing their food, energy, shelter and other material and non-material needs in a sustainable way."

- Bill Mollison

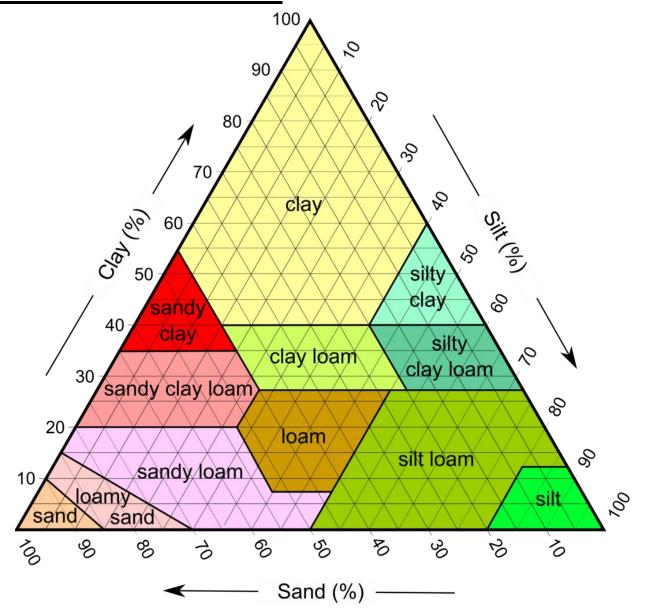
Homescape, landscape, farmscape and wildscape design based on observations of natural ecosystems.

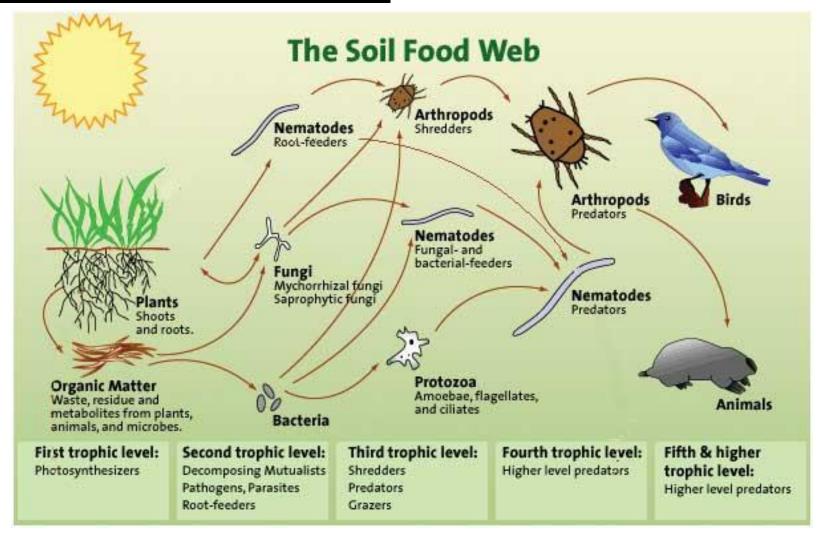
- Me, Patrick Rahilly











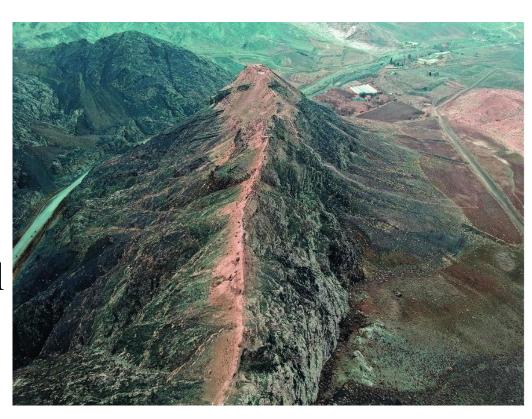
https://www.soilfoodweb.com.au/about-our-organisation/benefits-of-a-healthy-soil-food-web

- Dr. Elaine Ingham

Five (5) Soil Forming Factors

CI O R P T

- Cl climate
- O organisms
- R relief
- P parent material
- T time





...In your own backyard.

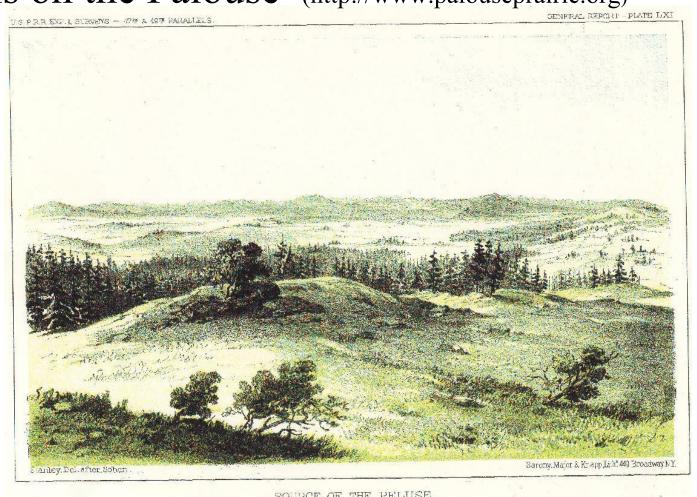
Why it is important to build your soils

Healthy soils:

- reduced water usage,
- increased soil water holding capacity
- reduce water runoff due to increased infiltration and percolation
- Increase plant health

There are various means on how to accomplish this.

Soils on the Palouse (http://www.palouseprairie.org)



SOURCE OF THE PELUSE

Soil Organic Matter

- organic matter, Organic Matter, ORGANIC MATTER!!!
- Lots of potential amendments and mulching:
 - Free underutilized materials
 - Compost
 - Manures
 - Cover Crops
- Test your amendments before adding germination tests.
- Earthworks

Under utilized (free) materials

- Fall Leaves

- Grass Clippings

- Wood Chips



Mulches

- Hay
- Alfalfa
- Straw

Know

Your

Farmer!



Manures

- Not all made the same

- Know Your farmer

- pH



Compost

- Home Made:not a big fan
- Vermiculture
 - Outdoor earthen pots
- Know the Source



Cover Crops

- Green manure
- Chop and drop



- Warm weather cover –vs- cold weather
- Keep a living soil
- Where to buy seeds!?!
- ... Be creative in you seed choices

Test Your Inputs

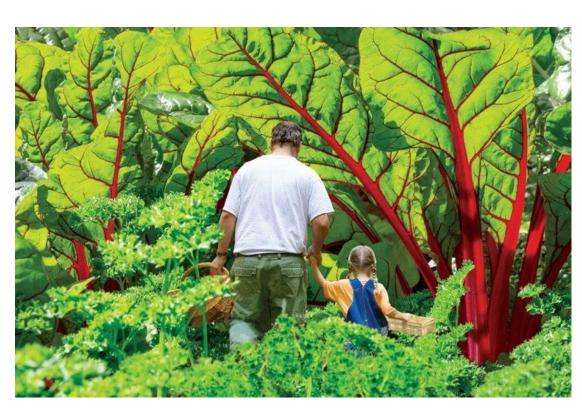
- Seed germination test



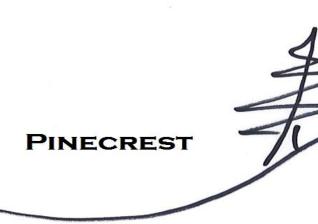
- Dicots and monocots; corn, wheat, peas, beans, radishes, buckwheat... a mix of fast sprouting seeds.
- 50/50 mix of outside material with your native soil
- See what grows
- Jar proof: sprout some of your seeds in a wet paper towel in a jar to test germination rate.

WATER CONSERVATION

- Building soil
- Cover
- Mulching
- Living soils
- Reduced ET
- Happy plants
- Happy Aquifer



https://www.maximumyield.com/





DESIGN AND CONSULTING

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