



How to Live a Permaculture Lifestyle

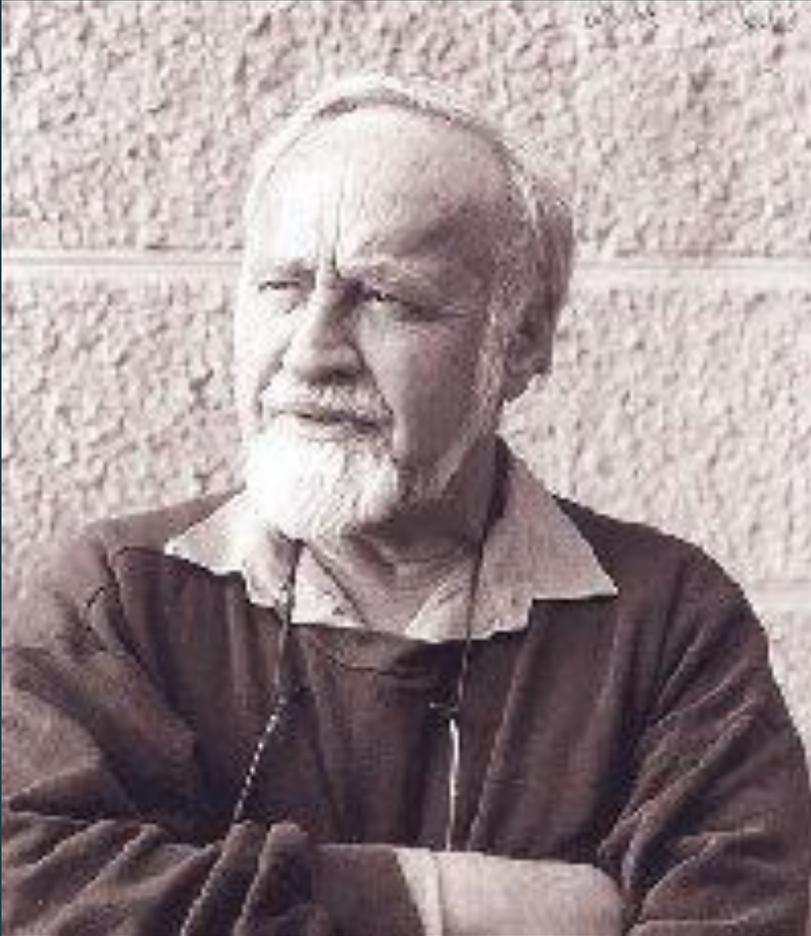
What is Permaculture?



“Consciously designed landscapes which mimic the patterns and relationships found in nature, while yielding an abundance of food, fibre and energy for provision of local needs.” - David Holmgren

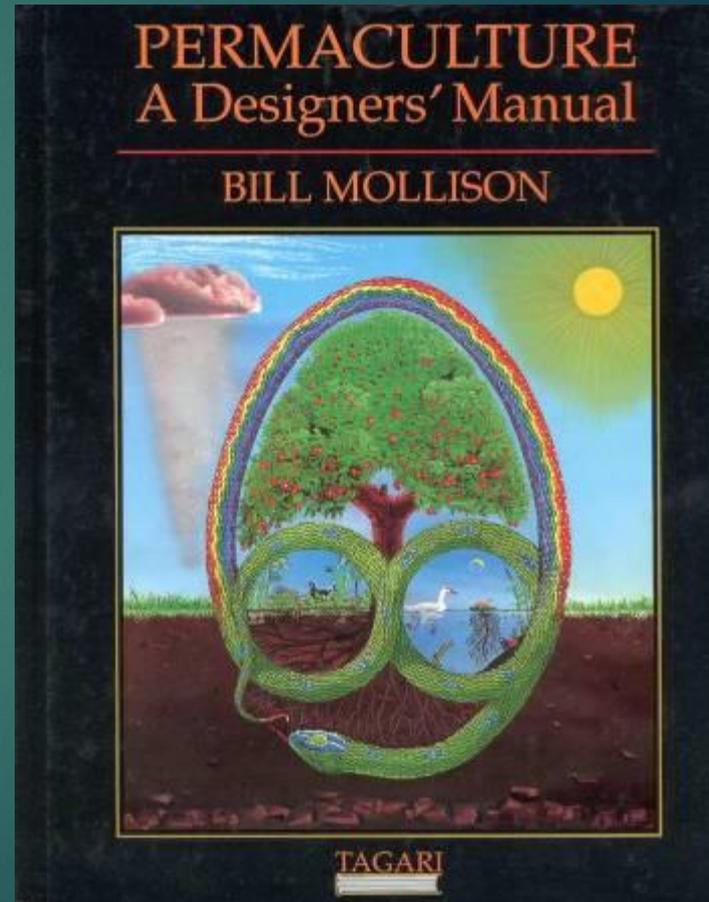
Permaculture

A Designer's Manual



“The systems by which we live today are simply, non-sustainable.”

Bill Mollison



Permaculture

PERMA (permanent) CULTURE

- ▶ “Permaculture is about relationships that we can create between minerals, plants animals and humans by the way we place them in the landscape. “
- ▶ “The aim is to create systems that are ecologically sound and economically viable, which provide for their own needs, do not exploit or pollute and are therefore sustainable in the long term.”

(Bill Mollison)

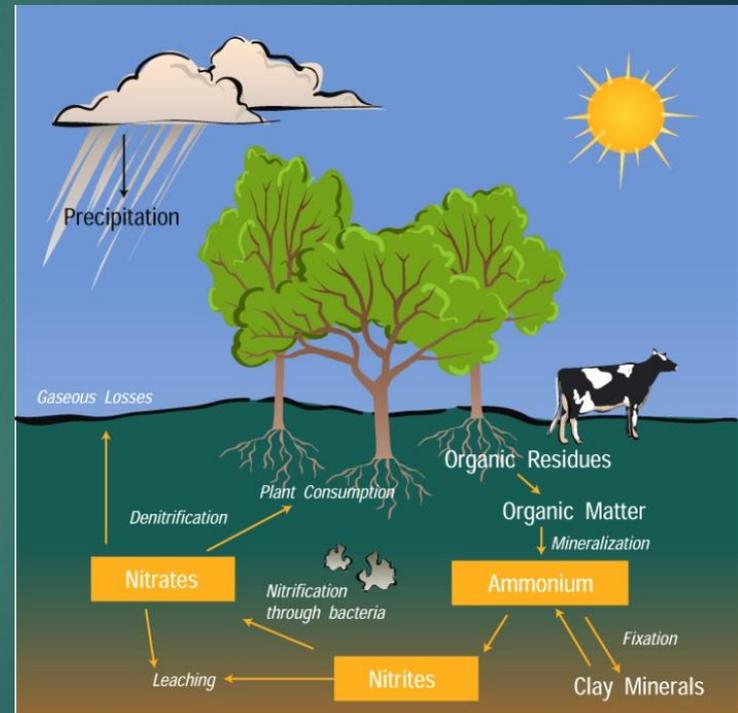
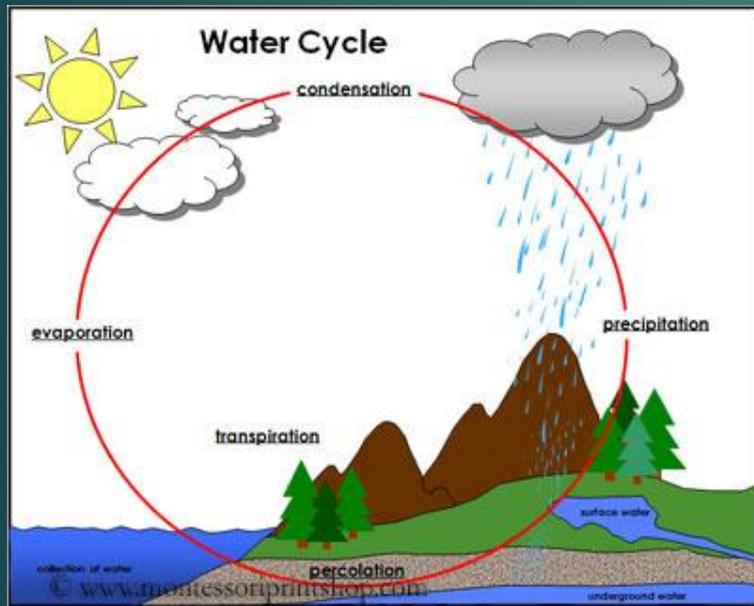
Permaculture is about Ethics and Sustainable Principles



Source: Holmgren, David; "Principles & Pathways Beyond Sustainability"

<http://permacultureprinciples.com/flower/>

Mother Nature uses a systems [circular] model of production capable of preserving resources for present and future generations,



Permaculture

Linear consumption
results in unused surplus, pollution and more work.

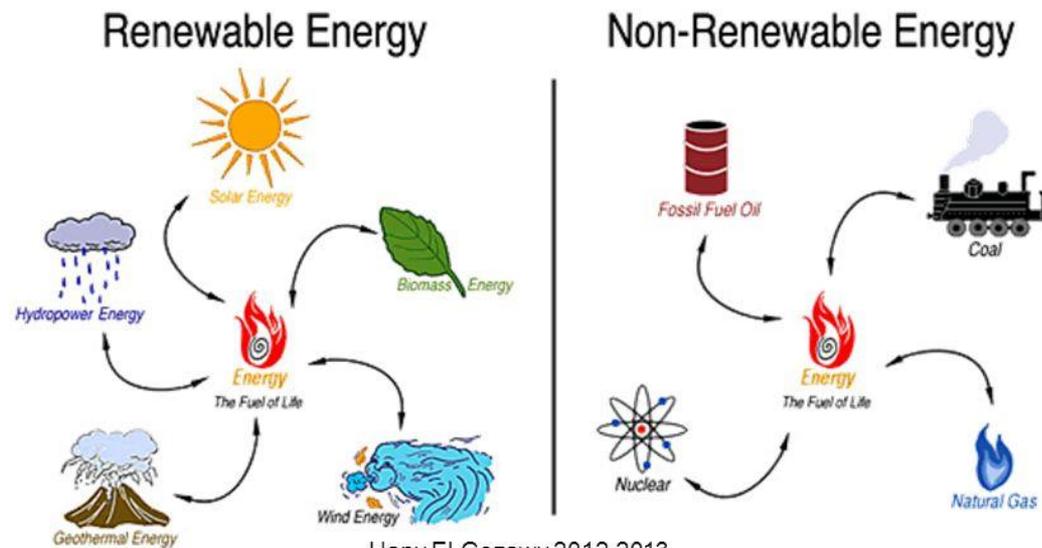


“Sustainable development is development that **meets the needs of the present** without compromising the ability of **future generations to meet their own needs.**“ United Nations | Our Common Future

Ethics

Choose Renewable Resources Manage Use of Finite Resources

Renewable and non-renewable energy sources

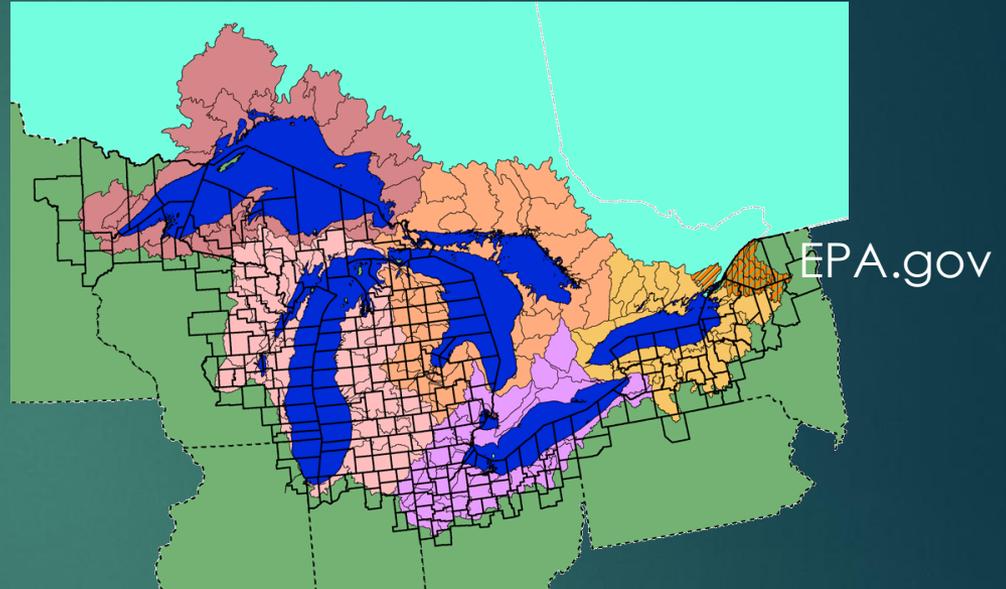


Hany El-Gezawy 2012-2013

Manage Our Water Resources

Water

- ▶ 84 percent of the surface water supply in North America.
- ▶ Spread evenly across the continental U.S., the Great Lakes would submerge the country under about 9.5 feet of water



Since most lawn-care chemicals have the potential to contaminate underlying groundwater, homeowners may unknowingly contaminate their own well water by using pesticides on their lawns.



Manage Our Consumption

Population growth and limited resources

The U.S. has set the standard for consumption

- ▶ U.S. 2020 population: 329 million
- ▶ China 2020 population: 1.39 billion
- ▶ Population in China est. peak in 2030

Source: US Census Bureau

<http://www.census.gov/popclock/>



Refuse, Reduce, Reuse, Recycle, Rot

Manage Our Use of Environmental Toxins

Some chemicals commonly used on lawns and gardens have been associated with birth defects, mutations, adverse reproductive effects, and cancer in laboratory animals. Children before the age of five, infants, and fetuses may be especially vulnerable to the health effects of pesticides as their cells are normally reproducing most rapidly.



"Pesticide" is a general term used for a chemical designed to kill target pests and organisms which cause plant diseases such as bacteria and fungi.



Pesticides have been identified as a potential cause of amphibian declines and deformities and have been implicated as one of the reasons that wild and managed pollinators are disappearing at alarming rates.

12. Creatively use & respond to change



1. Observe & interact

11. Use edges & value the marginal



Earth Care



2. Catch & store energy

10. Use & value diversity



3. Obtain a yield

9. Use small & slow solutions



4. Apply self-regulation & accept feedback

8. Integrate rather than segregate



Fair Share

People Care

7. Design from patterns to details



5. Use & value renewable resources & services



6. Produce no waste

Source: Holmgren, David; "Principles & Pathways Beyond Sustainability"

Permaculture

*“Permaculture is about taking **personal responsibility** for our own existence and that of our children.”*

Bill Mollison

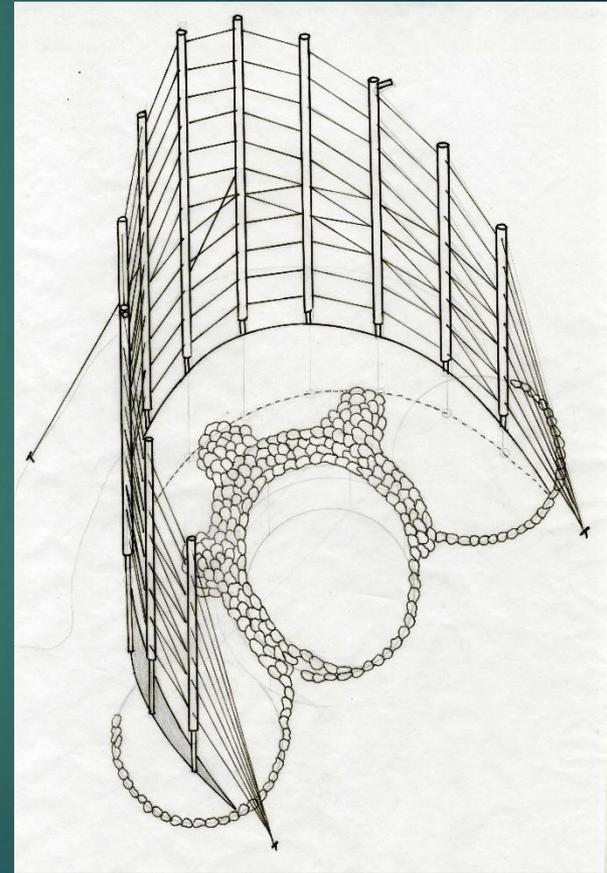
“...and why work harder, spend more \$\$ and create a toxic environment if you don't have to...”



Sun Path Trellis

Growing Melons in Cold Climate

- ▶ Angle: Catch and Store Energy
- ▶ Path: Integrate rather than Segregate
- ▶ Seasons: Obtain a Yield
- ▶ Energy: Value Diversity
- ▶ Symbol: Patterns to Details
- ▶ Materials: Value Renewable Resources



Sun Path Trellis



Permaculture Resources

Websites

- ▶ www.permacultureprinciples.com
- ▶ www.onestraw.wordpress.com
- ▶ www.midwestpermaculture.com
- ▶ www.thestoryofstuff.com



Books

- ▶ “Permaculture Principles & Pathways Beyond Sustainability” by David Holmgren
- ▶ “GAIA’s Garden” by Toby Hemenway
- ▶ “How to Grow More Vegetables” by John Jeavons

Films

- ▶ “Fresh” - food
- ▶ “Flow” – water
- ▶ “Home” – the environment and industrial growth