Permaculture is...

A vision of regenerative abundance
Permaculture is...

A design system for creating sustainable human environments based on natural principles
Permaculture is...  
A global network with over 1 million practitioners in over 140 countries.
Permaculture Ethics
The Permaculture Flower

Starting with ethics and principles focused in the critical domain of land and nature stewardship, permaculture is evolving by progressive application of principles to the integration of all seven domains necessary to sustain humanity through energy descent.
Begin at your back door.
Observe and Interact
Use and Value Renewable Resources and Services
Produce No Waste

2008
Catch and Store Energy
Integrate Rather than Segregate
Use and Value Renewable Resources and Services
Obtain a Yield
Use and Value Diversity
Harvest Tally 2011

Total Weight: 1622 lbs
Approximate value: $5460
Approximate costs:
$200 seeds and starts
$70 chicken feed

2014 Stores
48 pounds frozen vegetables
13 gallons berries
28 gallons cold storage
15 cases canned/fermented
Williams Street Farmhouse

Urban Homesteads for Modern Living

Energy Ratings
Workshops
Consultations
Designs

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Williams Street Farmhouse
Alaska Food Challenge
Living by the Permaculture Principles in Alaska’s only Bioshelter

A Presentation
By Cindee Karns,
AlaskanBioshelter.com
1. Creatively use & respond to change
2. Observe & interact
3. Catch & store energy
4. Obtain a yield
5. Apply self-regulation & accept feedback
6. Use & value renewable resources & services
7. Produce no waste
8. Design from patterns to details
9. Integrate rather than segregate
10. Use small & slow solutions
11. Use & value diversity
12. Use edges & value the marginal

From http://www.sector39.co.uk/blog/?p=3006
1: OBSERVE AND INTERACT
Bob was ahead of his time!

Construction was completed in 1986.

In 1987, it got a national award from Ronald Regan’s US Dept. of Energy!
2012: 25 years later  We moved in in 2008
What’s a Bioshelter?

An integrated house/greenhouse/aquaculture system designed to emulate a natural living systes, in which the subsytems interact with each other to collectively create a self-regulating whole.
The Water System:
We collect rain from the roof.
From the roof drains, the water goes through the pipe to the indoor leach field.
Water is stored in a 5,000 gal. cistern
A cut-away.....
We use the water

At the sinks
We have one faucet that filters our drinking water to .5 microns.
Our grey water treatment system
Waste from one system is the resource for the next!

We need these bacteria to eat whatever goes down the drain.

If we go on vacation, the bacteria die without food.

http://www.bestseptic treatments.com/tag/rid-x/
The water comes up from the barrels into a constructed wetland around the pond.
The Koi hear the pump going on and gather to catch any yummy bacteria clumps.

The waste of one system is the resource for the next.
We use a small circulating pump to pump water into the constructed wetlands to take up the nitrogen. (fish pee)

The waste of one system is the resource for the next.
Recap of Circulatory System Flow

FROM ROOF DRAINS → POND → SAND/GRAVEL FILTER → ULTRAVIOLET STERILIZER → STORAGE TANK → OVERFLOW → CARTRIDGE FILTERS → PLUMBING FIXTURES → BIOFILTER → WETLAND → FROM ROOF DRAINS
2 CATCH AND STORE ENERGY
Capturing heat from sun and from the home’s windows.
3 Obtain a yield
We are growing cherry trees in the solarium!
OBTAIN A YIELD
APPLY SELF-REGULATION AND ACCEPT FEEDBACK
The fish died---
the system told us something was wrong.
5 USE AND VALUE RENEWABLE RESOURCES AND SERVICES
6 PRODUCE NO WASTE
Three barrels in the basement

We fill one every six months

Kitchen scraps, Junk mail, Newspapers, Egg cartons, Fish carcasses,
What the drum looks like
Add worms to the bottom
The castings go on the garden.
7 DESIGN
FROM PATTERN TO DETAIL
Built from nature  (except the roof)
Quick tutorial on our natural build
Quick tutorial on our natural build
Pour the clay over the straw and toss
Stuff the walls
Use “waste” to create light shafts
Easy Peasy, Right?

Back to tour regularly scheduled program
8 INTEGRATE RATHER THAN SEGREGATE
9 USE SLOW AND SMALL SOLUTIONS

Our attempts to grow food.....

Or...why I needed a greenhouse.
10 USE AND VALUE DIVERSITY
11 USE EDGES AND VALUE THE MARGINAL
Where are the ideas on the edge?
12 Creatively Use and Respond to Change
Permaculture Principles

Passive
- Within Existing Systems
  - Observe & Interact
  - Catch & Store Energy
  - Apply Self-regulation & Accept Feedback
  - Produce No Waste
- Redesign Existing Systems
  - Obtain a Yield
  - Use & Value Renewable Resources and Services
  - Design From Patterns to Details
  - Integrate Rather Than Segregate

Pro Active
- Develop New Systems
  - Use Small and Slow Solutions
  - Use and Value Diversity
  - Use Edges and Value the Marginal
  - Creatively Use and Respond to Change

Progressive
Permaculture is about the durability of natural living systems—which includes human culture, but this durability paradoxically depends in large measure on flexibility and change.

Many stories and traditions have this theme: within the greatest stability lie the seeds of change.
And it all begins with.....

• OBSERVE AND INTERACT

• Learn the system before you start making changes. By taking time to engage with that system—whatever it is: church, work, family or your garden— you can design solutions that use nature as your model.
We talked about only the core---there’s really lots more!

Plug into Permaculture!
That's all Folks!