



# Sustainable Garden Design With Permaculture Principles



# TONY TEOLIS

HELPING OTHERS ACHIEVE EXCELLENCE

[TonyTeolis.com/](https://TonyTeolis.com/)

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## Catch And Store Energy With Ditches On Contour

Ditches On Contour Ditches On Contour

## The Front Yard Food Forest

Front Yard Permaculture Its been 3 Years  
since I tried to grow in the front yard. For

## 5 Career Hacking Secrets

I created 5 Career Hacking Secrets  
because I know what it is like to be

<https://www.youtube.com/tokyo73>

 TonyTeolis.com



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### Comic Book and Heirloom Seeds Giveaway



#### Comic Book and Heirloom Seeds Giveaway

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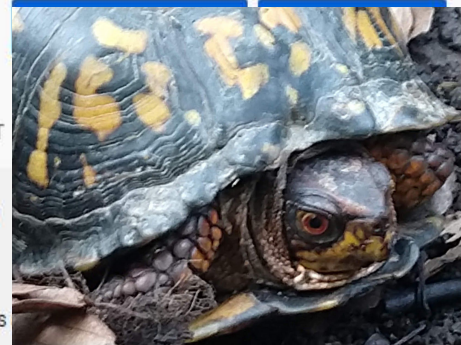
Heirloom Seeds Giveaway

<https://tonyteolis.com/seeds-giveaway>

<https://www.youtube.com/watch?v=qsXiK...>

Super Hero Comic Book Giveaway

READ MORE



# Disclaimer

This information is provided for educational purposes only. The user assumes full responsibility for how they choose to use this information. This presentation is a culmination of failures and successes between 2009 and 2020. We began the journey with what is happening today in mind. One plant at a time, one system at a time to make a better tomorrow. The results presented here are sparse in detail as this was a ten minute presentation for a local garden club. The images presented are my own except those otherwise credited and are intended to inspire. Your results will depend on many factors beyond the scope or intention of this material. Keep in mind the area presented is just about 2,500 square feet or 0.057 acre. Shade rules most of the day and rain water use to run off the property like a stream. The website <https://tonyteolis.com> and relevant social media such as <https://youtube.com/user/tokyo73> features the principles one by one in more explanation.

- <https://tonyteolis.com/about/privacy-policydislaimer>

- [Before You Dig - Call 811 Miss Utility](#)
  - Check for permit requirements
  - Check with your family and neighbors



The ethics earth care, people care and fair share form the foundation for permaculture design.  
The 12 principles are guided by these ethics.

CREATIVELY USE AND RESPOND TO CHANGE

USE EDGES AND VALUE THE MARGINAL



USE AND VALUE DIVERSITY



USE SMALL AND SLOW  
SOLUTIONS



INTEGRATE DON'T SEGREGATE



DESIGN FROM PATTERNS TO DETAILS



PRODUCE NO WASTE

EARTH



FAR SHARE



PEOPLE



OBSERVE AND INTERACT



CATCH AND STORE ENERGY



OBTAIN A BOUNTY



APPLY SELF REGULATION  
AND FEEDBACK

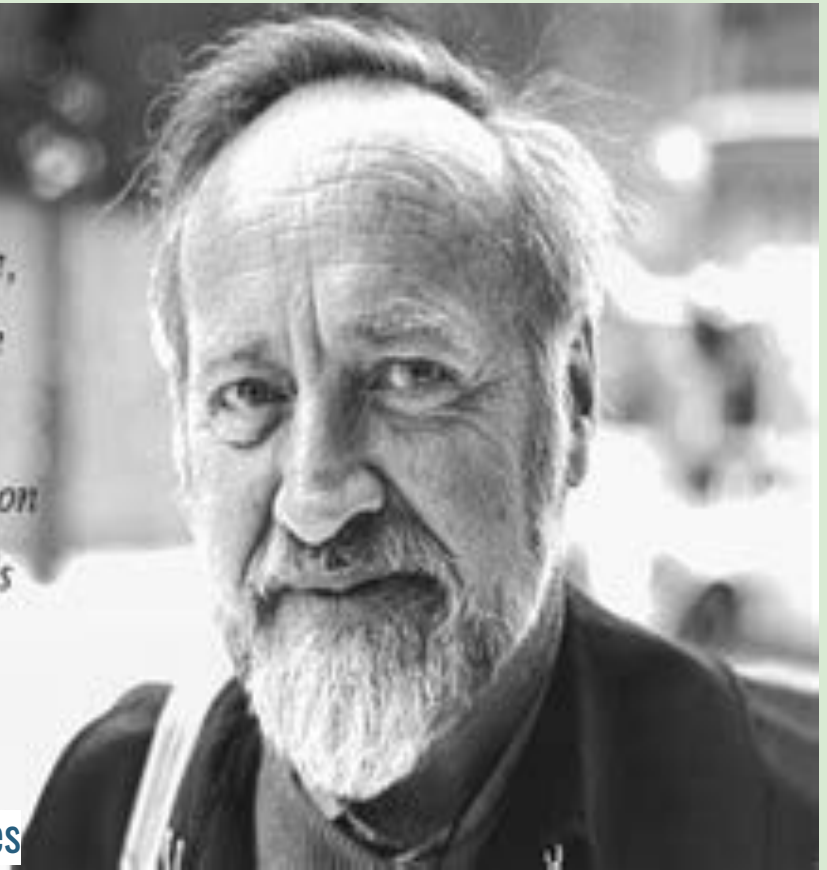


USE AND VALUE RENEWABLES



*"The greatest change we need to make is from consumption to production, even if on a small scale, in our own gardens. If only 10% of us do this, there is enough for everyone. Hence the futility of revolutionaries who have no gardens, who depend on the very system they attack, and who produce words and bullets, not food and shelter."*

**- Bill Mollison**



Sustainable Garden Design With Permaculture Principles

<https://tonyteolis.com/sustainable-garden-design-with-permaculture-principles>







## 2. CATCH AND STORE ENERGY

Water and energy are intertwined. Producing energy uses water, and providing freshwater uses energy. Water provides life and life brings energy in the form of plants and animals.





## 2. CATCH AND STORE ENERGY

Sun, Water, Soil, and Vegetation are are captured, stored and reinvested throughout the landscape.





## 2. CATCH AND STORE ENERGY

By developing a system of ditches on contour rain is collected when abundant and used in times of need.





## 2. CATCH AND STORE ENERGY

Saving water can also save energy. Plants can absorb carbon dioxide and improve the structure and quality of soil, which will store carbon.



## 2. CATCH AND STORE ENERGY



- A large barrel designed to catch and hold rainwater runoff
  - Ditches on Contour Slow and capture rainwater runoff
- Wood at the center of a garden holds water and decays and feeds a Garden



## 2. CATCH AND STORE ENERGY

In November 2011 I built an 11 log hugel bed in place of 2 flat square foot gardens (32SF). We now have a growing space of 90SF! And it holds water for years.



## 2. CATCH AND STORE ENERGY

Rain water used to run down the yard and escape. Now it is slowed by ditches on contour. In the mounds behind the ditches; wood, compost, and soil mix with water to bring life where there wasn't.





## 2. CATCH AND STORE ENERGY

Peach, Asian Pear, Apple, Grapes, Berries and Veggies of all varieties now grow tall and provide abundance for animal and plant life as well as food for the table.





## 2. CATCH AND STORE ENERGY



Rain water used to run down the yard and escape. Now it is slowed by ditches on contour, fruit tree guilds, bushes and grape vines that bear fruit.





## 2. CATCH AND STORE ENERGY



It's taken a few years but now we harvest many times from long serving systems. Life abounds where there once was a wasted resource.



# Thank You - Questions?

## Gardening and Permaculture

- [https://permacultureprinciples.com/principles/\\_1/](https://permacultureprinciples.com/principles/_1/)
- Bill Mollison - Permaculture: A Designer's Manual PDF
- 2015 Planting Times
- Free Permaculture Resources
- 2014 Planting Times To Do
- 2014 super master plan
- Plant Guilds
- Garden Guilds
- Grow Light set-up
- Frost Dates
- triangular 3 tiered strawberry patch
- 12 Principles of Permaculture – (ref: <http://www.permacultureprinciples.com> )

Images and some text courtesy of <https://permacultureprinciples.com/principles>



# Why me? Tony Teolis



Grow your garden. From a basic vegetable garden to a full-fledged food forest. I help build self-sustaining gardens the natural way. Contact me for a free garden consultation. Grow your food during times like these and beyond. <https://tonyteolis.com/contact>

I'll take the mystery out of how to grow your own food and flowers at homes with minimal cost and maintenance. Wake up and get berries for your yogurt in the backyard. Later on pick some flowers for the table and grab some peas and spinach to go with dinner.

I manage operations for the SBE Directorate at the National Science Foundation to include leading teams in the formulation of policy and procedures and oversight and improvement of business operations such as proposal review, grants administration, travel, training, and contracts.

I served in the US Army, developed business in Japan and managed operations for the Federal government. I serviced NTT Communications, Micron Electronics, DataCraft Japan, and the Japan Air Self Defense Force (JASDF).

I have been gardening for a long time and I want to share with you the best ways to grow food and flowers. You can have great food without working too hard or spending too much money.