
FOOD FOREST

IT IS A FOREST GARDENING WITH LOW MAINTENANCE, SUSTAINABLE ,PLANT- BASED FOOD PRODUCTION AND AGROFORESTRY, SYSTEM BASED ON WOODLAND ECOSYSTEMS, INCORPORATING FRUIT AND NUT TREES, SHRUBS, HERBS, VINES AND PERENNIAL VEGETABLES WHICH HAVE YIELDS DIRECTLY USEFUL FOR HUMANS.

ECOSOLUTIONS FOOD FOREST MAINLY AIMS TO GROW FRUITING TREES WITH HIGH YIELDS EVEN IN A SMALL PIECE OF LAND ALONG WITH ITS SOLID AND LIQUID WASTE MANAGEMENT AND PRODUCTION OF BIO MANURE FROM THE FOOD FOREST WITHOUT MUCH MAINTENANCE AND COST.

**PHOTOSYNTHESIS** is the process by which plants make food. It is an endothermic (takes in heat) chemical process that uses sunlight to turn carbon dioxide into sugars that the cell can use as energy. As well as plants, many kinds of algae, protists and bacteria use it to get food. Photosynthesis is very important for life on Earth

.

**STRATIFICATION** in the field of ecology refers to the vertical layering of a habitat; the arrangement of vegetation in layers .It classifies the layers (sing. *stratum*, pl. *strata*) of vegetation largely according to the different heights to which their plants grow. The individual layers are inhabited by different animal and plant communities (stratozones).

# STRATIFICATION OF A TYPICAL FOREST

A forest community is a typical example of terrestrial stratification because here a number of strata both above and below the soil can be recognised.

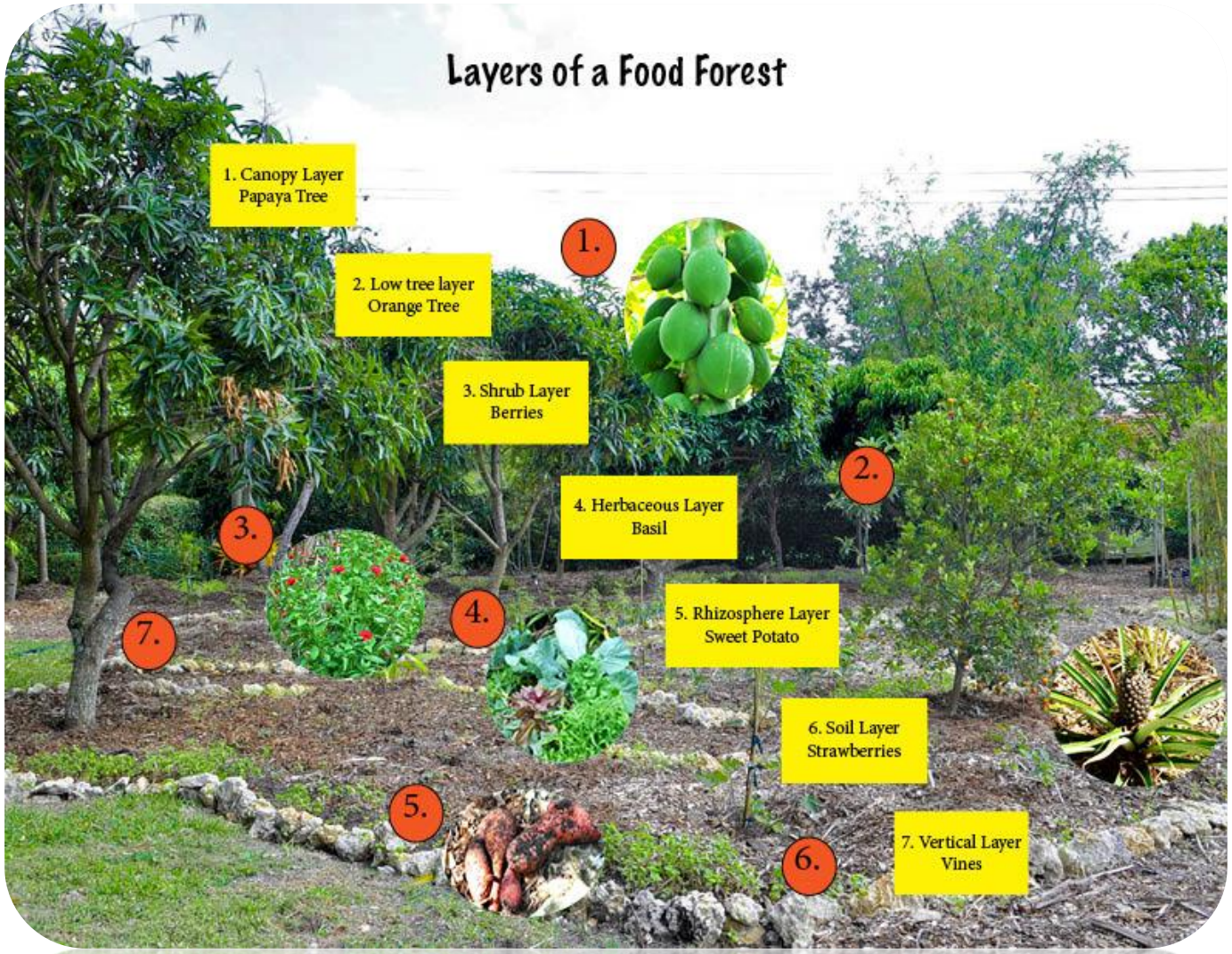
The stratification of a plant community is the result of long selection and adaptation processes. Through the formation of different layers a given habitat is better utilized. Strongly vertically stratified habitats are very stable ecosystems.

# Vertical structure in terrestrial plant habitats

The following layers are generally distinguished

- Forest Floor (Root And Moss Layers)
- Herb
- Shrub
- Understory And
- Canopy Layers.

These vegetation layers are primarily determined by the height of their individual plants, the different elements may however have a range of heights. The actual layer is characterised by the height range in which the vast majority of photosynthetic organs (predominantly leaves) are found. Taller species will have part of their shoot system in the underlying layers. In addition to the above-ground stratification there is also a “root layer”. In the broadest sense, the layering of diaspores in the soil may be counted as part of the vertical structure. The plants of a layer, especially with regard to their way of life and correspondingly similar root distribution interact closely and compete strongly for space, light, water and nutrients.


Layers of a Food Forest
1. Canopy Layer
Papaya Tree
2. Low tree layer
Orange Tree
3. Shrub Layer
Berries
4. Herbaceous Layer
Basil
5. Rhizosphere Layer
Sweet Potato
6. Soil Layer
Strawberries
7. Vertical Layer
Vines
1.
2.
3.
4.
5.
6.
7.

# WHY FOOD FOREST ?

- LOW MAINTANANCE
- COST EFFECTIVE
- SELF SUSTAINING
- AVAILABILITY OF FOOD CROPS
- WASTE MANAGEMENT
- MINIMUM AREA

- **MAIN PLANTS**

- Coconut
- Mango
- Jackfruit
- Rambutan
- Sapodilla
- Guava
- Coffee plum
- Java apple
- Bilimbi
- Salad orange
- Baraba
- Apple ber
- Custard apple

## FENCING CLIMBERS

- Black pepper
- Grapes
- Passion fruit

## EDGE PLANTS

- Drumstick
- Curry leaves





# FOOD FOREST

## ADVANTAGES

- FOOD SAFETY
- WATER SHEDDING
- SOLID WASTE MANAGEMENT
- LIQUID WASTE MANAGEMENT
- EXERCISE
- GOOD OXYGEN LEVEL
- MAINTAIN ECOSYSTEM
- ENVIRONMENTAL PROTECTION

## APPROXIMATE EXPENSE

| | | |
|---|---|---|
| Land preparation labor 800 X 4 | 3,200 | 00 |
| Manure 320 x 10 | 3,200 | 00 |
| Irrigation approximate | 3,000 | 00 |
| Plants ( vary according to size and year ) | 6,000 | 00 |
| Consultation on site | 1,000 | 00 |
| tools | 1,000 | 00 |
| BIO DIGESTER FOR SEWAGE REATMENT (optional) | | |
| * All amounts are optional according to your involvement. | | |



ENVIRONMENTAL ADVISORY GROUP

**ECO SOLUTIONS**

V/ 88, ACA BUILDING, PAZHOOKARA,TRICHUR , KERALA - 680 731
Email : ecosolutions19@gmail.com
Mob. : 9497047206 | : 094 95 686 108


Also Experts in Solid, Liquid Waste Management, Machines and Water ATM, Food Forest and Farming

FOLLOW US IN Xaviers-Eco-Solutions





THANK YOU