INTRODUCTION

In modern days not only farmers are facing issues on how and what to cultivate but also failing to have a proper cropping session. Thus, less availability of nutrients and minerals, and resources leads the farmer with fewer choices. As to ensure this problem we have designed a multi-layer farming pattern that helps not only with space management for cultivation but also provides us with a pattern to ensure multiple incomes.

CONTENT

Considering a poly-house with an average height above 20 feet consisting of 4 levels:

Level 1: Topmost layer consists of the beekeeping, dry storage area/refrigeration. With proper ventilation. The roof consists of wind and solar both medium for ventilation and dry heater/freezers for storage. A zone of germplasm storage can be optional.

Level 2: An area where root vegetables are grown like tubers, potatoes, etc. An interesting fact this growing pattern is r&d for modern cultivators because it provides high yields of cropped sessions. This place not only consists of root vegetables it also consists of a hydroponics/aquaponics system or vertical farm set. Multiple crops. Such as lettuce, and tomato.

Level 3: A field area where 90% of the area is reserved for soil-based multiple +multi-layered crops. E.g. outer skirts of this area are fenced with crops/plants that repeal insects. 3 different crops with different heights are grown as a purpose of the fence to protect inner commercial crops from pests and other insects. With this methodology, we will discover the best way of treatment to the plants in a very effective manner to ensure less usage of chemical products in the field. Thus it not only maintains a biologically compliant environment for the growers but also ensures a medium to change the pattern of growing.

Level 4: A moist environment for vermiculture, mushroom cultivation, and a crop grown in a humid environment is entertained.

CONCLUSION

It’s just like practicing permaculture with modern and allied patterns.