



Nitrogen Fixing Tree Start-up Guide



Revised 4/08

Nitrogen fixing trees (NFTs) have the ability to take nitrogen from the air and pass it on to other plants through the cycling of organic matter. Nitrogen is an essential nutrient for plant growth, and NFTs are a major source of nitrogen fertility in tropical ecosystems. When integrated with a farm, orchard, garden, or forest, NFTs can be a major source of nitrogen fertilizer and mulch for crops. Using NFTs can greatly reduce the need to purchase synthetic nitrogen fertilizers, thus lowering cash outputs and increasing self-sufficiency.

Aside from their nutrient and organic matter contribution, NFTs have many other uses on the farm, including animal fodder, bee forage (for honey production), living fences, wind shelter, and human food.

This guide provides basic information on how NFTs work, and details on how to plant, manage and use them to enhance soil fertility.

What are nitrogen fixing trees?

Nitrogen fixing trees (NFTs) are trees and shrubs that have the ability, through a symbiotic association with certain soil bacteria, to take nitrogen out of the air and use it for growth. This handbook focuses some on NFT species that are important in agriculture.

How NFTs get their nitrogen

Nitrogen is an essential nutrient for plant growth. Although the lack of nitrogen is often viewed as a problem in agriculture, nature has an immense reserve of nitrogen everywhere plants grow—in the air. Air consists of approximately 80% nitrogen gas (N_2), representing about 8000 lbs. of nitrogen above every acre of land (or 9000 kg above every hectare). However, N_2 is a stable gas, normally unavailable to plants. Nitrogen fixation is a process by which certain soil bacteria on the roots of nitrogen fixing plants “fix” or gather nitrogen from the air, and allow their NFT hosts to incorporate it into their leaves and tissues.

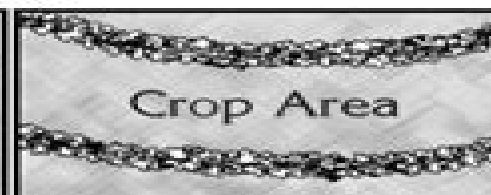
Uses of NFTs in Cropping Systems



Windbreak
Living fence
Fodder
Timber
Wildlife Habitat



Mulch bank
Fodder bank
Timber/pole wood
Wildlife Habitat
Shade
Bee forage
Nurse trees



Contour hedgerows
Alley cropping
Fodder hedges
Erosion control

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Nitrogen Fixing Tree Techo Guide

J Spring



Nitrogen Fixing Tree Techo Guide:

Whispering the Techniques of Language: An Emotional Journey through **Nitrogen Fixing Tree Techo Guide**

In a digitally-driven world where monitors reign great and instant transmission drowns out the subtleties of language, the profound strategies and emotional nuances hidden within words frequently get unheard. Yet, nestled within the pages of **Nitrogen Fixing Tree Techo Guide** a charming fictional value sporting with raw feelings, lies an exceptional quest waiting to be undertaken. Published by an experienced wordsmith, this charming opus attracts viewers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the material of every word. Within the psychological depths of this emotional evaluation, we can embark upon a genuine exploration of the book's core themes, dissect its interesting writing style, and yield to the powerful resonance it evokes deep within the recesses of readers' hearts.

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