



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.

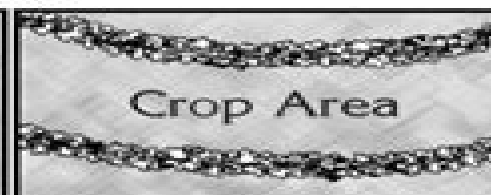
Uses of NFTs in Cropping Systems



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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Publisher: Permanent Agriculture Resources, P.O. Box 428, Holualoa, HI 96725 USA; Tel: 808-324-4427; Fax: 808-324-4129; E-mail: par@agroforestry.net; Web site: <http://www.agroforestry.net>

Acknowledgments: Publication of this guide was made possible through a grant from the U.S. Department of Agriculture's Western Region Sustainable Agriculture Research and Education (WSARE) and EPA/Agriculture in Concert with the Environment programs. Substantial contributions of material were made by the Forest, Farm and Community Tree Network (FACT Net).

Nitrogen Fixing Tree Techo Guide

G Orfield



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