



Nitrogen Fixing Tree Start-up Guide

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



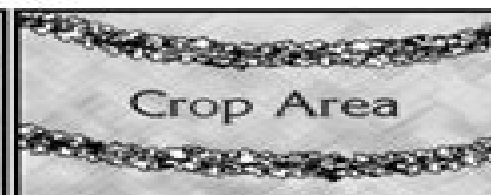
Crop Area

Windbreak
Living fence
Fodder
Timber
Wildlife Habitat



Crop Area

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



Crop Area

Contour hedgerows
Alley cropping
Fodder hedges
Erosion control

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Nitrogen Fixing Tree Techo Guide

**International Council for Research in
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Library Collection Rural Development Forestry Network (Overseas Development Institute (London, England)),1992

Traditional Trees of Pacific Islands Craig R. Elevitch,2006 This book is for the person who lives in the tropics or subtropics and is interested in native plants who wants to know about plants that are useful who loves to watch plants grow and who is willing to work with them Such a person might ask questions like Where will they grow How do I grow them Are they good to eat How are they used What are their names These questions and more are answered here Pr face **Annual**

Report of the International Council for Research in Agroforestry International Council for Research in Agroforestry,1989 *Ethical Tensions from New Technology* Harvey S James Jr,2018-08-20 The introduction of new technologies can be controversial especially when they create ethical tensions as well as winners and losers among stakeholders and interest groups While ethical tensions resulting from the genetic modification of crops and plants and their supportive gene technologies have been apparent for decades persistent challenges remain This book explores the contemporary nature type extent and implications of ethical tensions resulting from agricultural biotechnology specifically and technology generally There are four main arenas of ethical tensions public opinion policy and regulation technology as solutions to problems and older versus new technologies Contributions focus on one or more of these arenas by identifying the ethical tensions technology creates and articulating emerging fault lines and where possible viable solutions Key features include focusing on contemporary challenges created by new and emerging technologies especially agricultural biotechnology Identifying a unique perspective by considering the problem of ethical tensions created or enhanced by new technologies Providing an interdisciplinary perspective by including perspectives from sociologists economists philosophers and other social scientists This book will be of interest to academics in agricultural economics sociology and philosophy and policymakers concerned with introducing new technology into agriculture *Documentación de la FAO.* ,1994

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