

Forest Fertilization in Southern Pine Plantations

By T.R. Fox, H.L. Allen, T.J. Albaugh, R. Rubilar, and C.A. Carlson

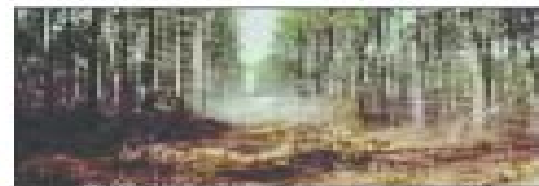
Forest fertilization is a widespread silvicultural practice in the southeastern U.S. About 1.2 million acres of pine plantations were fertilized with phosphorus (P) or nitrogen (N) plus P in 2004. The average growth response of loblolly pine plantations following mid-rotation fertilization with N+P is approximately 50 ft³/A/yr for 8 years. Internal rates of return in excess of 10% can be obtained after mid-rotation fertilization under current market conditions.

The southeastern U.S. produces more timber than any other region of the world from a forest base that now includes almost half of the world's forest plantations. There are currently 32 million acres of pine plantations in the southeastern states, predominantly comprised of loblolly pine (*Pinus taeda* L.) and to a lesser extent slash pine (*Pinus elliotii* Englem.). The growth rate in the pine plantations in the region currently averages around 5 green tons/A/yr, which is substantially lower than in many forest plantations in other parts of the world. Theoretical models, empirical field trials, and operational experience show that these growth rates are well below what is possible. With investment in appropriate intensive plantation silvicultural systems, growth rates

exceeding 10 tons/A/yr are biologically possible and financially attractive for a broad range of site types. Forest fertilization should be included in silvicultural regimes that are designed to enhance plantation growth in the region.

Ecophysiology and Tree Nutrition

It is now generally accepted that much of the variation in wood production in forest plantations is caused by variation in light interception. Light interception is principally a function of the amount of leaf area in a stand. Studies with loblolly pine and slash pine have shown that leaf area, and consequently wood production, are below optimum levels in most of the Southeast (Figure 1). Low nutrient availability is a principal factor causing subop-



Increased growth of pine trees with fertilization (left), compared to trees without fertilization (right), is illustrated in these Alabama plots.



Nutrition In Forest Trees In Plantations

Klaus Lorenz, Rattan Lal



Nutrition In Forest Trees In Plantations:

Management of Nutrition in Forests under Stress H.W. Zöttl, Oleg I. Larichev, 2013-04-18 Proceedings of the International Symposium held in Freiburg Germany September 18 21 1989 **Plantation Forestry in the Tropics** Julian Evans, 1992 This new edition has been completely revised to provide up to date accounts of silvicultural practices rural development issues and the wider role that tree planting plays The chapters on agroforestry and protection forestry have been virtually rewritten while throughout the book the important place of social forestry is recognized Nutrition of Plantation Forests Glynn D. Bowen, E. K. Sadanandan Nambiar, 1984 Plantation forests The scope and a perspective on plantation nutrition The dynamics of plantation growth Dynamics of nutrient cycling in plantation ecosystems Soil characteristics influencing nutrient supply in forest soils Biological factors influencing nutrient supply in forest soils Biological factors influencing nutrient supply in forest soils Tree roots and the use of nutrients Nutrient storage retranslocation and relationship of stress to nutrition Effects of mineral nutrition on carbon dioxide exchange and partitioning of carbon in trees The genetic basis of forest tree nutrition Diagnosis of nutrient deficiencies in plantations Wood yield and quality in relation to tree nutrition Fertilization of plantations Nitrogen fixation systems in forest plantations Consequences of forest management on soil tree relationships Environmental aspects of plantation management Design and analysis of tree nutrition experiments The role of modelling in tree nutrition research and site nutrient management Future directions in plantation nutrition research **Commercial Forest Plantations on Saline Lands** Marcia J. Lambert, John Turner, 2000 Provides information that will allow users to recover salt degraded land with selected plantation timbers and ultimately to make a profit *Forest Ecology Research Horizons* Nole C. Verne, 2007 Forest ecology includes within its scope the components and functions of forest ecosystems a community of organisms interacting with each other and with their physical environment Forest ecosystems which consist of bacteria plants birds mammals reptiles amphibians soil water and air differ from other ecosystems in that they are dominated by trees and other woody vegetation Each of these components plays an important role in the function and health of the forest This book presents important research in the field Forest, Foods and Nutrition Alessandra Durazzo, Massimo Lucarini, Massimo Zaccardelli, Antonello Santini, 2021-03-04 The Special Issue entitled Forest Food and Nutrition is focused on understanding of the intersection and linking existing between forests food and nutrition Forest ecosystems are an important biodiversity environment resource for many species Forests and trees play a key role in food production and have a relevant impact also on nutrition Plants and animals in the forests enable nutrient rich food sources to be available and can provide important contributions to dietary diversity quality and quantity Water and Nutrient Dynamics of Pinus Caribaea Plantation Forests on Former Grassland Soils in Southwest Viti Levu, Fiji Maarten Johannes Waterloo, 1994 **Normal Foliar Nutrient Levels in North American Forest Trees** Charles R. Blinn, Edward R. Buckner, 1989 **Nutrient Uptake and Cycling in Forest Ecosystems** L.O. Nilsson, Reinhard F. Hüttel, U.T. Johansson, 2012-12-06 From the research results

and discussions presented in this book it becomes clear that a profound understanding of the various interrelationships of the nutritional aspects allows the implementation of specific management strategies to improve stability and productivity of forest ecosystems. In particular the effects of environmental changes as related to the impacts of air pollution, global change and land use on nutrient uptake and cycling processes in forest ecosystems are dealt with in detail. The book is divided into six main issues and each topic contains reviews as well as selected results of recent studies.

Plant Analysis D Reuter, J B Robinson, 1997. *Plant Analysis: An Interpretation Manual* 2nd Edition is an easily accessible compilation of data summarising the range of nutrient concentration limits for crops, pastures, vegetables, fruit trees, vines, ornamentals and forest species. This information is valuable in assessing the effectiveness of fertiliser programs and for monitoring longer term changes in crop nutritional status. New to this edition: Volume and scope of information accessed from the literature has expanded several fold. Interpretation criteria for 294 species have been compiled in the tables from more than 1872 published papers. New chapter on nutrient criteria for forest species. Includes guidelines for collecting, handling and analysing plant material. An entire chapter is devoted to the identification of nutrient deficiency and toxicity symptoms.

Growing Plantation Forests Phil West, 2006-08-02. In a highly readable fashion this book describes the scientific principles which are used throughout the world to ensure rapid, healthy plantation growth. It is written for a world wide audience from forestry professionals and scientists through to small plantation growers to describe how plantations may be grown responsibly and profitably. The author has been a forest scientist for over 30 years.

Impacts of Forest Harvesting on Long-Term Site Productivity W.J. Dyck, D.W. Cole, N.B. Comerford, 2012-12-06. The International Energy Agency Bioenergy Agreement was initiated as the Forestry Energy Agreement in 1978. It was expanded in 1986 to form the Bioenergy Agreement. Since that time the Agreement has thrived with some fifteen countries: Austria, Belgium, Canada, Denmark, Finland, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom, United States and the CEC currently being signatories. The objective of the Agreement is to establish increased programme and project cooperation between the participants in the field of bioenergy. The environmental consequences of intensive forest harvesting have been the subject of intense interest for the Agreement from its initiation. This interest was formulated as a Cooperative Project under the Forestry Energy Agreement in 1984. It developed further under each of the subsequent three year Tasks of the Bioenergy Agreement: Task III Activity 3 Nutritional consequences of intensive forest harvesting on site productivity; Task VI Activity 6 Environmental impacts of harvesting; and more recently Task IX Activity 4 Environmental impacts of intensive harvesting. The work has been supported by five main countries from within the Bioenergy Agreement: Canada, New Zealand, Sweden, UK and USA. The continued work has resulted in a significant network of scientists working together towards a common objective that of generating a better understanding of the processes involved in nutrient cycling and the development of management regimes which will maintain or enhance long term site productivity.

Wildlife Habitats in Managed Rangelands Chris Maser, 1983

Carbon

Sequestration in Forest Ecosystems Klaus Lorenz, Rattan Lal, 2009-11-25 Carbon Sequestration in Forest Ecosystems is a comprehensive book describing the basic processes of carbon dynamics in forest ecosystems their contribution to carbon sequestration and implications for mitigating abrupt climate change This book provides the information on processes factors and causes influencing carbon sequestration in forest ecosystems Drawing upon most up to date references this book summarizes the current understanding of carbon sequestration processes in forest ecosystems while identifying knowledge gaps for future research Thus this book is a valuable knowledge source for students scientists forest managers and policy makers

Effect of Exotic Tree Plantations on Plant Diversity and Biological Soil Fertility in the Congo Savanna: With Special Reference to Eucalypts F. Bernhard-Reversat, 2001-01-01 Improvement of biodiversity in plantations Biological factors of fertility related to organic matter dynamics Biological factors of fertility related to the diversity and density of soil biota Asymbiotic nitrogen fixation in savanna and eucalypt plantations Effect of exotic tree plantations on free living and plant parasitic soil nematodes and population changes with eucalypt hybrids and plantation age *USDA Forest Service Research Paper PNW*. Pacific Northwest Forest and Range Experiment Station (Portland, Or.), 1970

Soils of Tropical Forest Ecosystems Andreas Schulte, Daddy Ruhayat, 2013-03-14 An understanding of the characteristics and the ecology of soils particularly those of forest ecosystems in the humid tropics is central to the development of sustainable forest management systems The present book examines the contribution that forest soil science and forest ecology can make to sustainable land use in the humid tropics Four main issues are addressed characteristics and classification of forest soils chemical and hydrological changes after forest utilization soil fertility management in forest plantations and agroforestry systems as well as ecosystem studies from the dipterocarp forest region of Southeast Asia Additionally case studies include work from Guyana Costa Rica the Philippines Malaysia Australia and Nigeria

Site Management and Productivity in Tropical Plantation Forests E. K. Sadanandan Nambiar, Christian Cossalter, A. E. Tiarks, 1999-01-01 Eucalypt plantations in the humid tropics Eucalyptus plantations in the equatorial zone on the coastal plains of the Congo Eucalypt and pine plantations in South Africa Plantations of Eucalyptus urophylla S T Blake Acacia mangium plantations in PT Musi Hutan Persada South Sumatra Indonesia Eucalypt plantations in Monsoonal tropics Kerala India Eucalypt plantations in South Western Australia Pine plantations on the coastal lowlands of subtropical Queensland Australia Chinese fir plantation in Fujian Province China

Growing Plantation Forests P. W. West, 2013-10-21 This book describes the scientific principles that are used throughout the world to ensure the rapid healthy growth of forest plantations As the population of the world increases so does the amount of wood people use Large areas of natural forests are being cleared every year and converted to other uses Almost as large an area of plantation forests is being established annually to replace those lost natural forests Eventually plantations will produce a large proportion of the wood used around the world for firewood building the manufacture of paper and bioenergy Forest plantations can also provide various environmental benefits including carbon

storage rehabilitation of degraded land serving as disposal sites for various forms of industrial or agricultural waste and enhancing biodiversity in regions that have been largely cleared for agriculture Whatever their motivation plantation forest growers want their plantations to be healthy and grow rapidly to achieve their purpose as soon as possible This book discusses how this is done It is written for a worldwide audience from forestry professionals and scientists through to small plantation growers and describes how plantations may be grown responsibly and profitably *Physiological Ecology of Forest Production* J. J. Landsberg, Peter Sands, 2010-11-26 Process based models open the way to useful predictions of the future growth rate of forests and provide a means of assessing the probable effects of variations in climate and management on forest productivity As such they have the potential to overcome the limitations of conventional forest growth and yield models which are based on mensuration data and assume that climate and atmospheric CO₂ concentrations will be the same in the future as they are now This book discusses the basic physiological processes that determine the growth of plants the way they are affected by environmental factors and how we can improve processes that are well understood such as growth from leaf to stand level and productivity A theme that runs through the book is integration to show a clear relationship between photosynthesis respiration plant nutrient requirements transpiration water relations and other factors affecting plant growth that are often looked at separately This integrated approach will provide the most comprehensive source for process based modelling which is valuable to ecologists plant physiologists forest planners and environmental scientists Includes explanations of inherently mathematical models aided by the use of graphs and diagrams illustrating causal interactions and by examples implemented as Excel spreadsheets Uses a process based model as a framework for explaining the mechanisms underlying plant growth Integrated approach provides a clear and relatively simple treatment

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