

Forest Fertilization in Southern Pine Plantations

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

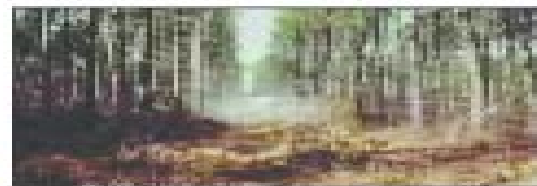
Forest fertilization is a widespread silvicultural practice in the southeastern U.S. About 1.2 million acres of pine plantations were fertilized with phosphorus (P) or nitrogen (N) plus P in 2004. The average growth response of loblolly pine plantations following mid-rotation fertilization with N+P is 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

H.W. Zöttl, Oleg I. Larichev



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 *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 **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

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

Normal Foliar Nutrient Levels in North American Forest Trees Charles R. Blinn, Edward R. Buckner, 1989

Commercial Forest Plantations on Saline Lands Marcia Lambert, John Turner, 2000-04-01 This book provides the information that will allow users to recover salt degraded land with selected plantation timbers and ultimately to make a profit The authors have drawn on their own experiences plus material from Australia India California and Israel where similar saline soil conditions occur The authors also bring their extensive work in forest biotechnology to the book The primary species of interest are in the genus Eucalyptus although other species notably conifers are referred to Issues involved in defining the characteristics of sites where plantations may be established and their special management requirements are discussed Options are presented for the selection and development of appropriate genotypes plus associated management practices Monitoring of plantations is shown to be a vital management issue The work includes a

chapter on environmental benefits which will broaden the appeal beyond forest managers extension officers and students of forestry to companies which produce CO₂ but which have no prior knowledge of forestry **Water and Nutrient Dynamics of Pinus Caribaea Plantation Forests on Former Grassland Soils in Southwest Viti Levu, Fiji** Maarten Johannes Waterloo,1994 **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 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 *Wildlife Habitats in Managed Rangelands* Chris Maser,1983

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