

Forest Fertilization in Southern Pine Plantations

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

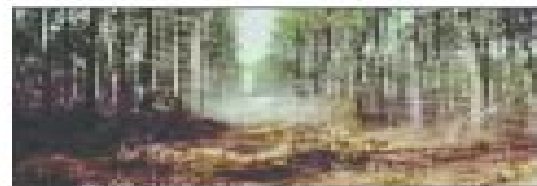
Forest fertilization is a widespread silvicultural practice in the southeastern U.S. About 1.2 million acres of pine plantations were fertilized with phosphorus (P) or nitrogen (N) plus P in 2004. The average growth response of loblolly pine plantations following mid-rotation fertilization with N+P is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

Annelies Wilder-Smith



Nutrition In Forest Trees In Plantations:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Nutrition In Forest Trees In Plantations**

In some sort of inundated with monitors and the cacophony of quick connection, the profound power and emotional resonance of verbal artistry usually diminish in to obscurity, eclipsed by the constant barrage of sound and distractions. However, located within the lyrical pages of **Nutrition In Forest Trees In Plantations**, a interesting work of fictional brilliance that impulses with natural thoughts, lies an remarkable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that exciting opus books viewers on an emotional odyssey, softly revealing the latent potential and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is main themes, dissect their captivating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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