

Forest Fertilization in Southern Pine Plantations

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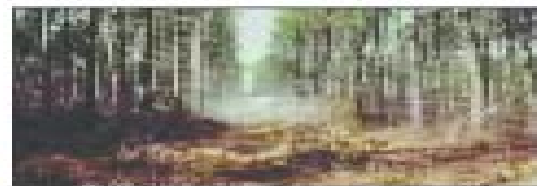
Forest fertilization is a widespread silvicultural practice in the southeastern U.S. About 1.2 million acres of pine plantations were fertilized with phosphorus (P) or nitrogen (N) plus P in 2004. The average growth response of loblolly pine plantations following mid-rotation fertilization with N+P is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

Maarten Johannes Waterloo



Nutrition In Forest Trees In Plantations:

Embracing the Song of Expression: An Emotional Symphony within **Nutrition In Forest Trees In Plantations**

In a world consumed by displays and the ceaseless chatter of fast communication, the melodic beauty and mental symphony created by the published word frequently disappear in to the back ground, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, situated within the pages of **Nutrition In Forest Trees In Plantations** an enchanting fictional prize filled with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that interesting masterpiece conducts viewers on a mental journey, well unraveling the hidden tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of the emotional evaluation, we shall investigate the book is key harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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