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Proceedings of the Ninth Biennial Southern Silvicultural Research Conference

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One hundred seventeen papers, 3 abstracts, 2 poster summaries, and 1 summary address a range of issues affecting southern forests. Papers are grouped in several categories including tree improvement and nursery technology, site preparation, vegetation management, site classification, longleaf pine silviculture, nutrient dynamics, silvicultural systems, intermediate management, hardwood regeneration, pine and pine-hardwood regeneration, impacts of harvesting and site preparation, pine nutrition management, physiology, plant and structural diversity, growth and yield, stand development and dynamics, and measurement and research methods.

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Proceedings of the Ninth Biennial Southern Silvicultural Research Conference

Edited by

Thomas A. Waldrop

Clemson, South Carolina

February 25-27, 1997

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PREFACE

The Ninth Biennial Southern Silvicultural Research Conference was held February 25-27, 1997 on the campus of Clemson University in Clemson, SC. This conference was the latest in a series of meetings designed to provide a forum for the exchange of research information among silviculturists and researchers in related areas, research coordination, review of research in progress, and new approaches or techniques of general interest. The conference consisted of four concurrent sessions over 2 days, a poster session, and two concurrent field tours on the third day. Presentations covered a wide array of topics related to silvics and silviculture. They emphasized research in pine, hardwood, and mixed-species forests. Field trips included (1) a view of over 40 years hardwood regeneration research at the Bent Creek Research and Demonstration Forest and (2) numerous topics related to management and research on the Clemson Experimental Forest. This was the largest conference of the series with 154 oral and poster presentations and 351 registered participants.

Sponsors of the conference included the Southern Research Station, Clemson University, the Society of American Foresters, the Southern Region of the National Association of Professional Forestry Schools and Colleges, the Southern Industrial Forestry Research Council, the National Hardwood Lumber Association, the Southern Group of State Foresters, the National Association of Consulting Foresters in America, the Historically Black Colleges and Universities Program, and the University of Arkansas, Monticello. Funding for many conference expenses was provided by the Southern Research Station, Clemson University, and Alabama A&M University. Each sponsor provided one or more representatives to the steering committee. This committee worked numerous hours to review abstracts that were submitted by authors, establish the program for oral and poster presentations, and make all necessary arrangements for the conference. Steering committee members included:

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University of Arkansas, Monticello

Brian Lockhart

A new feature of the Ninth Biennial Southern Silvicultural Research Conference was a partnership between the Southern Research Station and Clemson University to co-host this meeting. The Southern Research Station is grateful to Clemson University for their diligence in handling the fiscal responsibilities of this meeting. Special thanks go to Jeanne Campbell, Gladys Crawford, Steve Muzal, and Yvonne Scott for many hours of tedious work.

Special recognition is offered to the excellent panel of distinguished moderators that led each session. I am particularly grateful to Jackie Haymond, Vic Shelburne, and Tom Green who coordinated local arrangements, field trips, and the poster session, respectively.

Papers published in these proceedings were submitted by authors in electronic media. Editing was done to ensure a consistent format. Authors are responsible for content and accuracy of their individual papers.

Thomas A. Waldrop

Program Chair

Southern Research Station, Clemson, SC

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