



# LONGLEAF PINE: AN UPDATED BIBLIOGRAPHY



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This is the final report of cooperative agreement 19-94-045 between the Auburn University School of Forestry and the USDA Forest Service, Southern Research Station, Vegetation Management and Longleaf Pine research project at Auburn, Ala. An electronic format is available via the Internet (<http://www.forestry.auburn.edu>) and will be updated periodically. To access the database, click on the web page menu item entitled Longleaf Alliance in the Cooperative/Special Program section.

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# LONGLEAF PINE: AN UPDATED BIBLIOGRAPHY

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The longleaf pine (*Pinus palustris* Mill.) forest figured prominently in the cultural and economic development of the South. What was once one of the most extensive forest ecosystems in North America has now become critically endangered (6). At the time of European settlement, this ecosystem dominated as much as 92 million acres throughout the southeastern United States (2). Acreage declined dramatically, largely due to human use, to 20 million acres by 1935 (9), then to 5 million acres by 1975, and 3.8 million acres a decade later (5). A 1994 update places the figure at 3.2 million acres (7).

Longleaf pine ecosystems are among the most species-rich plant communities outside the tropics (8). The extreme reduction of the longleaf pine ecosystem is the main reason for the precarious state of at least 191 taxa of vascular plants (3, 10) and key wildlife such as the red-cockaded woodpecker (RCW), gopher tortoise, and southern fox squirrel.

The continuing loss of longleaf pine forests has prompted a concerted effort to restore and manage the longleaf pine ecosystem to ensure its future as part of the region's natural and cultural heritage. In 1993, the USDA Forest Service Southern and Southeastern Forest Experiment Stations (now consolidated as the Southern Research Station) initiated a Longleaf Pine Ecosystem Restoration research program. Clearly an array of restoration, rehabilitation, regeneration, and management activities would be needed to reverse the decline of this southern forest ecosystem. The first year of this five-year research program was aimed at building partnerships and conducting surveys and assessments. A vital component of the initial planning year was to develop an updated bibliography of published work associated with the longleaf pine ecosystem. This was to be accomplished in cooperation with the Auburn University School of Forestry.

Three excellent sources of longleaf pine literature already existed. The first is Wahlenberg's book, *Longleaf Pine*, which had 637 citations (9). Croker picked up where Wahlenberg left off with an annotated bibliography from 1946-1967 (1). These two works formed the basis for Hu and Burns' bibliography which spanned from 1858 to 1984 (4).

This bibliography represents a compilation of references not present in the works mentioned above or which have been published since 1984. A search was conducted for publications from 1984 to the present using INFOSouth, which is a southern forestry information service operated by the USDA Forest Service at the University of Georgia Science Library in Athens, Ga. Databases searched by INFOSouth included: AGRICOLA, 1970-1993; CAB ABSTRACTS, 1972-1993; BIOSIS, 1969-1993; DISSERTATION ABSTRACTS, 1861-1993; CURRENT CONTENTS; CRIS/USDA; FS INFO; and NTIS. In addition, other groups and individuals assisted in the search. Every effort was made to include relevant works from the ecosystem, community, and restoration ecology fields as they pertained to the longleaf pine ecosystem.

A chronological order was used for the bibliography, similar to that used by Hu and Burns. Each reference is listed by its year of publication in alphabetical order by author (e.g. FS 33001). The "FS" was used to recognize the USDA Forest Service for funding this effort. The "33001" indicates the publication year was 1933 and the 001 is the publication number within that year. Additionally, the bibliography is indexed by author. However, due to the size of the undertaking, the references are not annotated as was done by Croker, nor has a subject-matter index been provided similar to that of Hu and Burns. If a DESCRIPTOR field follows the location of the reference, these are keywords (phrases) that were included by the INFOSouth search

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and occasionally from other sources.

This bibliography is available in two formats. The first is this printed format which contains exactly 500 citations. The second is available on the Internet through the World Wide Web home page of the Auburn University School of Forestry (<http://www.forestry.auburn.edu>). This and other databases are accessible for full text searches over the Internet or to be downloaded for use on individual PCs. To access the databases, click on the web page menu item entitled "Longleaf Alliance" in the Cooperatives/Special Programs. Available databases include:

1. References included in this bibliography (Kush, et al. 1996).

2. Hu, S.C. and P.Y. Burns. 1986. Longleaf Pine: A bibliography - 1858-1984. Res. Rep. No. 6. Baton Rouge, LA: Louisiana State University Agricultural Center, School of Forestry, Wildlife, and Fisheries: 93 p.

3. Wahlenberg, W.G. 1946. Longleaf pine: Its use, ecology, regeneration, protection, growth, and management. Washington, D.C. Charles Lathrop Pack Forestry Foundation, in cooperation with the U.S. Department of Agriculture, Forest Service. 429 p (citations only).

4. New references or references not found in the above databases.

Undoubtedly, the authors have overlooked some references and would appreciate notification of such. Please contact John S. Kush [phone: (334) 844-1065; or E-mail: [kush@forestry.auburn.edu](mailto:kush@forestry.auburn.edu)] or Ralph S. Meldahl [phone: (334) 844-1060; or E-mail: [meldahl@forestry.auburn.edu](mailto:meldahl@forestry.auburn.edu)]. Also, the authors can be reached by FAX at (334) 844-1084. The mailing address is: School of Forestry, 108 M. White Smith Hall, Auburn University, AL 36849-5418.

The intent is to continually update the database at Auburn University. As an example, the Proceedings of the 18th Tall Timbers Fire Ecology Conference entitled *The Longleaf Pine Ecosystem: Ecology, Restoration and Management* was published as this manuscript was being completed. While citations from this work are not published here, they have been added to the database available on the Internet.

Special thanks are extended to Jean Conn, Pratima Nepal, Wandsleigh Williams, and Marietjie Quicke for their assistance in putting this work together.

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- (5) **Kelly, J.F., and Bechtold, W.A.** 1990. The longleaf pine resource. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:11-22.
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- (7) **Outcalt, K.W., and Outcalt, P.A.** 1994. The longleaf pine ecosystem: An assessment of current conditions. Unpublished data on file. US Department of Agriculture, Forest Service, Southern Research Station, Gainesville, FL. 23 p.
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*DESCRIPTORS:* stand; fuel; palmetto; gallberry; understory brush.

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*DESCRIPTORS:* early flowering; seed source.

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*DESCRIPTORS:* germination; germination value; mean daily germination; peak value; germination value.

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*DESCRIPTORS:* mesic uplands; dominance; hardwood; forest climax.

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*DESCRIPTORS:* prescribed burning; flood; fire.

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*DESCRIPTORS*: prehydrolysis.

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*DESCRIPTORS*: cell-wall; intertracheid membranes; pit membranes; alkaline extraction; latewood.

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*DESCRIPTORS*: Bottom-land hardwoods; deer habitats; upland hardwood; loblolly-shortleaf pine hardwoods; longleaf-slash pine.

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DESCRIPTORS: *Dioryctria abietella*; pupation; larvae; pupae; moths.

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DESCRIPTORS: ordination gradient; water-table depth; soil-surface gradient; soil pH.

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DESCRIPTORS: fire; shelterwood; sandhills.

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DESCRIPTORS: slash pine; loblolly pine; shortleaf pine; longleaf pine; Ocala sand pine; Choctawhatchee sand pine.

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DESCRIPTORS: fuel; weather; wildfires; moisture content; relative humidity; rainfall deficiency.

## FS 73004

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DESCRIPTORS: point density.



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**Langdon, O.G.; Schultz, R.P.** 1973. Longleaf and slash pines. In: Silvicultural systems for the major forest types of the United States. Agric. Hndbk. No. 445. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:85-89.

FS 74001

**Boyer, W.D.** 1974. Longleaf pine cone production related to pollen density. In: Kraus, J. ed. Proceedings of a colloquium: seed yield from southern pine seed orchards; 1974 April 2-3: Macon, GA: Georgia Forest Research Council:8-14.

*DESCRIPTORS:* seed production; flowering.

FS 74002

**Campbell, T.E.** 1974. First-summer survival rate high for fall- and spring-germinated longleaf pine. *Tree Planters' Notes*. 25(3):18-19.

*DESCRIPTORS:* germination.

FS 74003

**Hodges, C.S., Jr.** 1974. Relative susceptibility of slash, loblolly and longleaf pines to infection by *Fomes annosus*. In: Kuhlman, E.G. ed. Proceeding - 4th international conference on *Fomes annosus*; 1973 September 17-22; Athens, GA: U.S. Department of Agriculture, Forest Service, Washington Office:86-91

*DESCRIPTORS:* infection; susceptibility; inoculation.

FS 74004

**Schultz, R.P.; Wilhite, L.P.** 1974. Changes in a flatwoods site following intensive preparation. *Forest Science*. 20(3):230-237.

FS 76001

**Barnett, J.P.** 1976. Cone and seed maturation of southern pines. Res. Pap. SO-122. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 11 p.

*DESCRIPTORS:* seed yield; cone; germination; immature cones; maturity; sugar content; x-rays.

FS 76002

**Lewis, C.E., Harshbarger, T.J.** 1976. Shrub and herbaceous vegetation after 20 years of prescribed burning in the South Carolina Coastal Plain. *Journal of Range Management*. 29:13-18.

*DESCRIPTORS:* ground cover; burning treatments; herbage yield.

FS 76003

**Lohrey, R.E.; Robert, L.B.** 1976. Yield tables and stand structure for unthinned longleaf pine plantations in Louisiana and Texas. Res. Pap. SO-133. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 53 p.

FS 76004

**Taras, M.A.; Clark, A., III.** 1976. Aboveground biomass of longleaf pine in a natural sawtimber stand in southern Alabama. Res. Pap. SE-162. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 32 p.

*DESCRIPTORS:* weight; volume; prediction equations; biomass.

FS 76005

**Veno, P.A.** 1976. Successional relationships in five Florida plant communities. *Ecology*. 57(3):498-508.

*DESCRIPTORS:* sandhills; fire suppression; mesic hammock; scrub; succession; xeric hammock.

FS 77001

**Witcher, W.; Lane, C.L.** 1977. *Cronartium fusiforme* on direct seeded and planted pines.

*DESCRIPTORS:* Savannah River Plant.

FS 78001

**White, T.L.; Knopp, J.A.** 1978. Conelet abortion and ATP levels in longleaf pine. *Canadian Journal of Botany*. 56:680-685.

*DESCRIPTORS:* conelet abortion; ATP; encased conelets.

FS 79001

**Harlow, W.M.; Harrar, E.S.; White, F.M.** 1979. Textbook of dendrology. New York, McGraw-Hill, Inc. 6th ed. 542 p.

FS 79002

**Saucier, J.R.; Henderson, L.T.; Schoenike, R.E.** 1979. Wood properties of plantation-grown sonderegger pine. Res. Note SE-272. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 4 p.

*DESCRIPTORS:* specific gravity; tracheid length.

FS 79003

**Van Lear, D.H.; Jones, S.M.** 1979. Classification of plant communities at the Savannah River Plant. Rep. No. 1026-2. Savannah River Plant: U.S. Department of Energy, Washington, D.C.

*DESCRIPTORS:* communities; classification.

FS 80001

**Boyer, W.D.** 1980. Interim site-index curves for longleaf pine plantations. Res. Note SO-261. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 5 p.

*DESCRIPTORS:* sites index; growth; density; height; cutting.

FS 80002

**Delcourt, P.A.** 1980. Goshen Springs: late Quaternary Vegetation record for southern Alabama. *Ecology*. 61(2):371-386.

FS 80003

**Goodwin, O.C.** 1980. Fertilization increases straw production and tree growth of longleaf pine stand in North Carolina. For. Note 43. Raleigh, NC: North Carolina Forest Service, Division of Forest Resources:6 p.

FS 80004

**Michael, J.L.** 1980. Long-term impact of aerial application of 2,4,5-T to longleaf pine (*Pinus palustris*). *Weed Science*. 28:255-257.

*DESCRIPTORS:* pine release; herbicide; competition; 2,4,5-T.

FS 80005

**Shain, W.A.; Helms, J.R.** 1980. Growth and yield of loblolly, slash, and longleaf pines in the South Carolina Sandhills: third measurement. Rep. No. 10706-1.

Savannah River Plant: U.S. Department of Energy, Washington, D.C.

*DESCRIPTORS*: comparative evaluations; experimental data; plant growth; productivity; soils; survival curves.

**FS 80006**

**Sparks, R.C.; Linnartz, N.E.; Harris, H.E.** 1980. Long-term effects of early pruning and thinning treatments on growth of natural longleaf pine. *Southern Journal of Applied Forestry*. 4:77-79.

*DESCRIPTORS*: pruning; thinning; stocking rate.

**FS 80007**

**Watts, W.A.** 1980. The late Quaternary Vegetation history of the Southeastern United States. *Annual Review of Ecology and Systematics*. 11:387-409.

**FS 81001**

**Bechtold, W.A.; Sheffield, R.M.** 1981. Forest statistics for Florida, 1980. Res. Bull. SE-58. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station.

*DESCRIPTORS*: inventories; industries; removal; structural; timber; forest land; growth; tables (data).

**FS 81002**

**Boyer, W.D.** 1981. Pollen production and dispersal as affected by seasonal temperature and rainfall patterns. In: Franklin, E.C., ed. *Pollen management handbook*. Agric. Hdbk No. 587. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:2-9.

**FS 81003**

**Boyer, W.D.** 1981. Site and stand factors affecting height growth curves of longleaf pine plantations. In: Barnett, J.P., ed. *Proceedings - 1st biennial southern silviculture research conference*. 1980 November 6-7; Atlanta, GA: Gen. Tech. Rep. SO-34. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:184-187.

**FS 81004**

**Christensen, N.L.** 1981. Fire regimes in southeastern ecosystems. In: Mooney, H.A.; Bonnicksen, T.M.; Christensen, N.L.; Loton, J.E.; Reiners, W.A., eds. *Fire regimes and ecosystems properties*. Gen. Tech. Rep. WO-26. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:112-136

*DESCRIPTORS*: fire; ecosystem; southeast; Coastal Plain; landscape; fuel production; moisture condition.

**FS 81005**

**Guldin, R.W.; Barnett, J.P.**, comps. 1981. *Proceedings of the Southern Containerized Forest Tree Seedling Conference*. Gen. Tech. Rep. SO-37. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 156 p.

*DESCRIPTORS*: reforestation; forest trees; containers; planting; plant diseases; morphology; plant growth; automation; survival; greenhouses.

**FS 81006**

**Hatchell, G.E.** 1981. Effects of root dips of benomyl and captan on seedling response and mycorrhizal development of outplanted longleaf, sand, and loblolly pines. Rep. No. SRO-870-21. Athens, GA: Institute for Myc-

orrhizal Research and Development. U.S. Department of Agriculture, Forest Service.

*DESCRIPTORS*: fungicides; seedlings; biological effects; experimental data; inoculation; mycorrhizae; survival curves.

**FS 81007**

**Nifong, T.D.** 1981. Natural areas inventory of Brunswick county, North Carolina. Rep. No. CEIP-10. Raleigh, NC: North Carolina Coastal Energy Impact Program.

*DESCRIPTORS*: natural resources; coasts; inventories; flood plains; vegetation; forest trees; swamps; birds; sites; mammals; plants; protection; bays.

**FS 81008**

**Parker, J.A.; Haines, L.W.** 1981. Longleaf pine seedling survival studies. In: Barnett, J.P., ed. *Proceedings - 1st biennial southern silviculture research conference*. 1980 November 6-7; Atlanta, GA: Gen. Tech. Rep. SO-34. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:16-19.

**FS 82001**

**Garner, J.W.; Olinger, H.L.** 1982. Modification of tree planter to include herbicide application. *Tree Planters' Notes*. 33(3):13-14.

**FS 82002**

**Goodwin, O.C.** 1982. Fertilization of longleaf pine stand increases straw production and tree growth yields up to three years. For. Note No.56. Raleigh, NC: North Carolina Forest Service, Division of Forest Resources. 5 p.

*DESCRIPTORS*: fertilization; straw production; growth; yields; plant nutrients; soil nutrients.

**FS 82003**

**Guldin, R.W.** 1982. What does it cost to grow seedlings in containers? *Tree Planters' Notes*. 33(1):34-37.

*DESCRIPTORS*: container-grown seedlings; bare-root seedlings; nursery; planting cost; site preparation.

**FS 82004**

**Hatchell, G.E.** 1982. Effects of root dips of benomyl and captan on seedling response and mycorrhizal development of outplanted longleaf, sand, and loblolly pines. Rep. No. SRO-870-29. Athens, GA: Institute for Mycorrhizal Research and Development, U.S. Department of Agriculture, Forest Service.

*DESCRIPTORS*: fungicides; population density; seedlings; biological effects; experimental data; mycorrhizae; survival curves.

**FS 82005**

**McKee, W.H., Jr.** 1982. Changes in soil fertility following prescribed burning on Coastal Plain pine sites. Res. Pap. SE-234. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 23 p.

*DESCRIPTORS*: soil fertility; weathering; calcium; nitrogen; burning; chemical constituent; sand; silt.

**FS 82006**

**Moore, W.H.; Swindel, B.F.; Terry, W.S.** 1982. Vegetation response to prescribed fire in a north Florida flatwoods forest. *Journal of Range Management*. 35(3):386-389.

*DESCRIPTORS*: grazing; management; controlled burning; fire effects; ecology.

**FS 82007**

**Pearson, H.A.; Grelen, H.E.; Epps, E.A.; Johnson, M.K.; Blakewood, B.W.** 1982. Botanical composition and nutritive value of cattle diets on Southern Pine Range. Res. Pap. SO-178. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 24 p.

*DESCRIPTORS*: diets; nutritive value; cattle; forest land; concentration (composition); range grasses; sampling; forage grasses; animal nutrition; digestion (biology); proteins; vitamins; calcium; phosphorus; tables (data).

**FS 82008**

**Pyne, S.J.** 1982. Fire in America. Princeton, N.J., Princeton University Press. 654 p.

**FS 82009**

**Streng, D.R.; Harcombe, P.A.** 1982. Why don't east Texas savannas grow up to forest? American Midland Naturalist. 108:278-294.

**FS 82010**

**Wright, H.A.; Bailey, A.W.** 1982. Fire ecology. New York: John Wiley and Sons. 501 p.

*DESCRIPTORS*: fire history; fire suppression; prescribed burning

**FS 83001**

**Dennington, R.W.; Farrar, R.M., Jr.** 1983. Longleaf pine management. R8-FR 3. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 17 p.

**FS 83002**

**Grelen, H.E.** 1982. May burns benefits survival and growth of longleaf pine seedlings. In: Jones, E.P., Jr. ed. Proceedings - 2nd biennial southern silvicultural research conference; 1982 November 4-5; Atlanta, GA: Gen. Tech. Rep. SE-24. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:70-74.

*DESCRIPTORS*: May burns; survival; growth.

**FS 83003**

**Hough, W.A.** 1983. Fuel consumption and fire behavior of hazard reduction burns. Res. Pap. SE-36. Asheville, NC: U.S. Department of Agriculture, Forest Service Southern Forest Experiment Station.

*DESCRIPTORS*: fuel consumption; fires; spreading; moisture content; estimation; regression analysis; humidity.

**FS 83004**

**Walker, J.; Peet, R.K.** 1983. Composition and species diversity of pine-wiregrass savannas of the Green Swamp, North Carolina. Vegetatio. 55:163-179.

*DESCRIPTORS*: wiregrass; community types; species diversity; fire frequency; savannas; soil moisture; North Carolina.

**FS 84001**

**Barnett, J.P.** 1984. Relating seedling physiology to survival and growth in container-grown southern pines. In: Duryea, M.L.; Brown, G.N. ed. Proceedings of the

physiological working group technical session, Society of American Forester's national convention: seedling physiology and reforestation success; 1983 October 16-20; Portland, OR: Dordrecht, Netherlands, Martinus Nijhoff/Dr. W. Junk Publishers:157-176.

*DESCRIPTORS*: container grown plants; seedling culture.

**FS 84002**

**Byrd, N.A.; Lewis, C.E.; Pearson, H.A.** 1984. Management of southern pine forests for cattle production. R8-GR4. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 22 p.

*DESCRIPTORS*: range management; cattle; reproduction.

**FS 84003**

**Goddard, R.E.; Rockwood, D.L.; Kok, H.R.** 1984. Cooperative forest genetics research program: twenty-sixth progress report. Rep. No. 35. Gainesville, FL: University of Florida, School of Forest Resources and Conservation. 26 p.

*DESCRIPTORS*: fungal diseases; disease resistance; plant breeding; breeding programs.

**FS 84004**

**Grelen, H.E.; Hughes, R.H.** 1984. Common herbaceous plants of southern forest range. Res. Pap. SO-210. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 147 p.

*DESCRIPTORS*: grasses; forbs; bluestem; wiregrass; marshes; prairies; bottomland hardwoods; upland hardwoods.

**FS 84005**

**Hatchell, G.E.** 1984. Effects of root dips of benomyl and captan on seedling response and mycorrhizal development of outplanted longleaf, sand, and loblolly pines. Rep. No. 00870-37. Athens, GA: Institute of Mycorrhizal Research and Development, U.S. Department of Agriculture, Forest Service.

*DESCRIPTORS*: seedlings; fungicides; growth; mycorrhiza.

**FS 84006**

**Johnson, V.J.** 1984. How shape affects the burning of piled debris. Fire Management Notes. 45(3):12-15.

*DESCRIPTORS*: slash; controlled burning; planning; ecology; forest fires.

**FS 84007**

**Judge, R.P.; Strait, R.; Hyde, W.F.** 1984. Economics of endangered species management: the red-cockaded woodpecker. In: Sabol, K. ed. Transactions 49th North American wildlife and natural resources conference. Washington, D.C.: Wildlife Management Institute:375-381.

*DESCRIPTORS*: rotation; birds; conservation; management; economics; ecology.

**FS 84008**

**Kais, A.G.; Cordell, C.E.; Affeltranger, C.E.** 1984. Increased survival of longleaf pine with *Pisolithus tinctorius* and benomyl. In: Molina, R. ed. Proceedings - 6th North American Conference on Mycorrhizae; 1984 June 25-29; Bend, OR: Oregon State University, Col-

lege of Forestry:222.

*DESCRIPTORS*: benomyli; survival.

#### FS 84009

**Kalisz, P.J.; Stone, E.L.** 1984. Soil mixing by scarab beetles and pocket gophers in north-central Florida. Soil Science Society of America Journal. 48(1):169-172.

*DESCRIPTORS*: pedoturbation; soil movement; mammals.

#### FS 84010

**Kossuth, S.V.** 1984. Biomass chemicals: improvement in quality and quantity with physiological regulators. Biomass. 6(1-2):47-59.

*DESCRIPTORS*: biomass energy research; growth regulators; plant physiology.

#### FS 84011

**Marx, D.H.; Cordell, C.E.; Kenney, D.S.; Mexal, J.G.; Artman, J.D.; Riffle, J.W.; Molina, R.J.** 1984. Commercial vegetative inoculum of *Pisolithus tinctorius* and inoculation techniques for development of ectomycorrhizae on bare-root tree seedlings. Forest Science Monograph. No. 25

*DESCRIPTORS*: mycorrhizae; culture techniques; inoculation; fungi; specific taxa; woody plants; techniques.

#### FS 84012

**Miller, J.H.** 1984. Soil-active herbicides for single-stem and stand hardwood control. In: Proceedings of the 37th Southern Weed Science Society meeting; 1984 January 17-19; Hot Springs, AR; SWSPBE 37; Champaign, IL: Weed Science Society of America:173-181.

*DESCRIPTORS*: herbicides.

#### FS 84013

**Sommer, H.E.; Wetzstein, H.Y.; Stine, M.; Lee, N.** 1984. Differentiation in tissue culture of sweetgum and southern pines. In: Proceedings of the Technical Association of the Pulp and Paper Industry research and development conference; 1984 September 30 - October 3; Appleton, WI: University of Georgia, School of Forest Resources:35-37.

*DESCRIPTORS*: TAPPI research; vegetative propagation; tissue culture; leaves; anatomy.

#### FS 84014

**Tinus, R.W.; Owston, P.W.; Barnett, J.P.** 1983. Stock quality - stock types: Container. In: Duryea, M.L.; Brown, G.N. ed. Proceedings of the physiological working group technical session, Society of American Forester's national convention: seedling physiology and reforestation success; 1983 October 16-20; Portland, OR: Dordrecht, Netherlands, Martinus Nijhoff/Dr W. Junk Publishers:143-176.

*DESCRIPTORS*: seedling physiology; reforestation success; planting stock; containers; nursery management; quality.

#### FS 84015

**USDA Forest Service.** 1984. Southern Pine nursery handbook. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 372 p.

*DESCRIPTORS*: nurseries; seedlings.

#### FS 84016

**Wengert, E.M.** 1984. Southern pine high temperature kiln control with temperature drop across the load (TDAL) measurements. In: Robertson, D; White, J.; comp. Proceedings - computer automation for sawmill profit; Dubuque, IA: Kendall/Hunt Publishing:83-85.

*DESCRIPTORS*: lumber; drying; kilns; temperatures; automatic control; moisture content.

#### FS 84017

**Zahn, J.J.** 1984. Strength of southern pine 2x4 beam-columns. Forest Products Laboratory, U.S. Department of Agriculture, Forest Service. 56 p.

*DESCRIPTORS*: wood testing; simulation methods; strength of materials; wooden beams.

#### FS 85001

**Barnett, J.P.** 1985. Estimating seed vigor by sugar exudates and radicle elongation. Tree Planters' Notes. 36(3):16-19.

*DESCRIPTORS*: seeds; radicles; sugars; vigor.

#### FS 85002

**Beers, B.L.; Bailey, R.L.** 1985. Yields, stand structure and economic conclusions: based on a 22-year-old site preparation study with planted loblolly and longleaf pines. Res. Pap. No. 55. Georgia Forestry Commission, Research Division. 7 p.

*DESCRIPTORS*: stand characteristics; increment; volume; structure; site preparation; mechanical methods.

#### FS 85003

**Beers, B.L.; Bailey, R.L.** 1985. Yields, stand structure and economic conclusions from a 22-year-old site preparation study with planted loblolly and longleaf pines. In: Shoulders, E., ed. Proceedings - 3rd biennial southern silvicultural research conference; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:86.

#### FS 85004

**Boyer, W.D.** 1985. First-year survival of planted longleaf pine bare-root and container stock as affected by site preparation and release. In: Shoulders, E., ed. Proceedings - 3rd biennial southern silvicultural research conference; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:74-78.

#### FS 85005

**Boyer, W.D.** 1985. Timing of longleaf pine seedling release from overtopping hardwoods: a look 30 years later. Southern Journal of Applied Forestry. 9(2):114-116.

*DESCRIPTORS*: plant competition; weed control; cutting.

#### FS 85006

**Byram, T.D.; Lowe, W.J.** 1985. Longleaf pine tree improvement in the western Gulf region. In: Proceedings - 18th southern forest tree improvement conference; 1985 May 21-23; Long Beach, MS:Pub. No. 40. Southern Forest Tree Improvement Committee:78-87.

## FS 85007

- Dwinell, L.D.; Barrows-Broadus, J.B.; Kuhlman, E.G.** 1985. Pitch canker: a disease complex of southern pines. *Plant Disease*. 69(3):270-276.

## FS 85008

- Farrar, R.M., Jr.** 1985. Crown ratio used as a surrogate for form in a volume equation for natural longleaf pine stems. In: Shoulders, E., ed. *Proceedings - 3rd biennial southern silvicultural research conference*; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:429-435.

*DESCRIPTORS*: stems; volume determination; crown cover.

## FS 85009

- Farrar, R.M., Jr.** 1985. Predicting stand and stock tables from a spacing study in naturally regenerated longleaf pine. Res. Pap. SO-219. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 28 p.

*DESCRIPTORS*: volume; prediction; yields; tree age; stand density; stocking density; computer software; basal area.

## FS 85010

- Farrar, R.M., Jr.** 1985. Volume and growth predictions for thinned even-aged natural longleaf pine stands in the east Gulf area. Res. Pap. SO-220. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 171 p.

## FS 85011

- Fatzinger, C.W.** 1985. Attraction of the black turpentine beetle (Coleoptera: Scolytidae) and other forest *Coleoptera* to turpentine-baited traps. *Environmental Entomology*. 14(6):768-775.

*DESCRIPTORS*: insect traps; baits; turpentine; insect attractants.

## FS 85012

- Gaby, L.I.** 1985. The southern pines: An American Wood. FS-256. U.S. Department of Agriculture, Forest Service. 10 p.

## FS 85013

- Glover, G.R.; Creighton, J.L.** 1985. Effects of hardwoods on pine yield, summary of data. In: *Proceedings - Southern Weed Science Society, 38th annual meeting*; 1985 January; SWSPBE 38; Champaign, IL: Weed Science Society of America:256.

*DESCRIPTORS*: ammonium sulphamate; usage; dalapon; glyphosate; 2,4,5-t; 2,4-d; hexazinone paraquat; picloram; simazine; triclopyr; weed control; chemical vs. cultural weed control.

## FS 85014

- Hatchell, G.E.** 1985. Seedling quality and field performance of longleaf pine seedlings affected by ectomycorrhizae and nursery cultural practices. In: Shoulders, E., ed. *Proceedings - 3rd biennial southern silvicultural research conference*; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. De-

partment of Agriculture, Forest Service, Southern Forest Experiment Station:395-402.

*DESCRIPTORS*: cultural methods; seedlings; performance.

## FS 85015

- Humphrey, S.R.; Eisenberg, J.F.; Franz, R.** 1985. Possibilities for restoring wildlife of a longleaf pine savanna in an abandoned citrus grove. *Wildlife Society Bulletin*. 13(4):487-496.

*DESCRIPTORS*: wildlife; wildlife conservation; abandoned land; citrus; orchards; habitat improvement.

## FS 85016

- Kais, A.G.** 1985. Recent advances in control of brown spot in longleaf pine. In: 34th annual forestry symposium; Baton Rouge, LA: Louisiana State University, Division of Continuing Education:83-90.

*DESCRIPTORS*: *scirrhia*; disease control; benomyl; survival; root treatment.

## FS 85017

- Kroll, J.C.; Deauman, W.C.; Foster, C.D.; Kulhavey, D.L.; Tracey, W.D.** 1985. Survival of pines on droughty soils: two year results. In: Shoulders, E., ed. *Proceedings - 3rd biennial southern silvicultural research conference*; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:128-131.

## FS 85018

- Lewis, C.E.; Monson, W.G.; Bonyata, R.J.** 1985. Pensacola bahiagrass can be used to improve the forage resource when regenerating southern pines. *Southern Journal of Applied Forestry*. 9(4):254-259.

*DESCRIPTORS*: agroforestry; direct sowing; nutritional value; digestibility; fertilizers.

## FS 85019

- Marx, D.H.** 1985. Reclamation of Borrow Pits and Denuded Lands: Final Report, September 1, 1976 to December 31, 1985. Rep. No. 00870-40. Savannah River Plant: U.S. Department of Energy. 5 p.

*DESCRIPTORS*: land reclamation; field tests; plant growth; sewage; sludge; solid waste disposal.

## FS 85020

- McReynolds, R.D.; Kossuth, S.V.** 1985. CEPA in liquid sulfuric acid increases oleoresin yields. *Southern Journal of Applied Forestry*. 9(3):170-173.

*DESCRIPTORS*: oleoresins; 2-chloroethylphosphonic acid; sulfuric acid.

## FS 85021

- Means, D.B.; Grow, G.** 1985. The endangered longleaf pine community. ENFO Rep. 85(4):1-12.

*DESCRIPTORS*: biology; ecology; fire.

## FS 85022

- Mohlenbrock, R.H.** 1985. Leon Sinks, Florida. *Natural History*. 94(12):76-78.

*DESCRIPTORS*: plant ecology; fire ecology; limestone soils; sandy soils.

## FS 85023

- Myers, R.L.** 1985. Fire and the dynamic relationship be-

tween Florida Sandhill and Sand-pine scrub vegetation. Bulletin of the Torrey Botanical Club. 112:241-252.

*DESCRIPTORS*: sand pine scrub; soil; fire; scrub oaks.

#### FS 85024

**Nelson, L.R.; Zutter, B.R.; Gjerstad, D.H.** 1985. Planted longleaf pine seedlings respond to herbaceous weed control using herbicides. Southern Journal of Applied Forestry. 9(4):236-240.

*DESCRIPTORS*: seedlings; growth rate; height; tree diameter/girth; herbicides; weed control; fungal diseases; blights.

#### FS 85025

**Outcalt, K.W.** 1985. Direct seeding versus planting for establishment of pines on West Florida sandhills. In: Shoulders, E., ed. Proceedings - 3rd biennial southern silvicultural research conference; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:122-127.

*DESCRIPTORS*: direct sowing; seedlings; planting; hill sites; sand.

#### FS 85026

**Repenning, R.W.; Labisky, R.F.** 1985. Effects of even-age timber management on bird communities of the longleaf pine forest in northern Florida. Journal of Wildlife Management. 49(4):1088-1098.

*DESCRIPTORS*: forest influences; bird; wildlife management.

#### FS 85027

**Richardson, D.R.** 1985. Allelopathy and fire in the Florida scrub. American Journal of Botany. 72(6):864.

*DESCRIPTORS*: weeds; ecology; allelopathy.

#### FS 85028

**Rounsaville, M.G.** 1985. Techniques for successful artificial regeneration of longleaf pine. In: Proceedings - 18th southern forest tree improvement conference; 1985 May 21-23; Long Beach, MS: Pub. No. 40. Southern Forest Tree Improvement Committee:75-77.

#### FS 85029

**Ruehle, J.L.** 1985. The effect of cupric carbonate on root morphology of containerized mycorrhizal pine seedlings. Canadian Journal of Forest Research. 15(3):586-592.

*DESCRIPTORS*: mycorrhizae; inoculation; nursery management; containers; planting stock; quality; roots; growth; development; cupric carbonate; copper carbonate.

#### FS 85030

**Schmidtling, R.C.** 1985. Species and cultural effects on soil chemistry in a southern pine plantation after 24 years. In: Shoulders, E., ed. Proceedings - 3rd biennial southern silvicultural research conference; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54, New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:573-577.

*DESCRIPTORS*: fertilizers; nitrogen; phosphorus; potassium; cultivation.

#### FS 85031

**Shoulders, E.** 1985. The case for planting longleaf pine. In: Shoulders, E., ed. Proceedings - 3rd biennial southern silvicultural research conference; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54, New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:255-260.

*DESCRIPTORS*: plant establishment; survival; performance; productivity.

#### FS 85032

**Stine, M.; Sommer, H.E.** 1985. Comparison of adventitious shoot formation from mature embryos of longleaf pine, slash pine, and the hybrid, longleaf pine X slash pine. In: Proceedings of the 4th North Central Tree Improvement Conference; Madison, WI: University of Wisconsin-Madison, Department of Forestry:6-11.

*DESCRIPTORS*: hybridization; embryos (plant); shoots; development; tissue culture; f1 hybrids; ontogeny.

#### FS 85033

**Teitelbaum, R.D.; Smith, W.P.** 1985. Cavity-site characteristics of the red-cockaded woodpecker in Fontainebleau State Park, Louisiana. In: Proceedings of the Louisiana Academy of Sciences. 48:116-122.

*DESCRIPTORS*: birds; forest ecology; tree cavities.

#### FS 85034

**Ting, J.C.; Chang, M.** 1985. Soil-moisture depletion under three southern pine plantations in east Texas. Forest Ecology and Management. 12(3/4):179-193.

*DESCRIPTORS*: forest plantations; soil moisture.

#### FS 85035

**Vozzo, J.A.** 1985. Mulch and temperature effects on germination of southern pine seed. In: Shoulders, E., ed. Proceedings - 3rd biennial southern silvicultural research conference; 1984 November 7-8; Atlanta, GA: Gen. Tech. Rep. SO-54. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:42-44.

#### FS 85036

**Winandy, J.E.; Boone, R.S.; Bendtsen, B.A.** 1985. Interaction of CCA preservative treatment and redrying: effect on the mechanical properties of southern pine. Forest Products Journal. 35(10):62-68.

*DESCRIPTORS*: lumber; wood preservation; wood preservatives; drying; mechanical properties of wood.

#### FS 86001

**Anderson, R.L.; Walkinshaw, C.H.** 1986. Susceptibility of longleaf pine seedlings to *Cronartium quercuum* f. sp. *fusiforme* in greenhouse tests. Plant Disease. 70(1):50-51.

*DESCRIPTORS*: seedlings; greenhouse culture; susceptibility; rust diseases; screening tests.

#### FS 86002

**Barnett, J.P.; Brissette, J.C.** 1986. Producing southern pine seedlings in containers. Gen. Tech. Rep. SO-59. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 71 p.

*DESCRIPTORS*: seedlings; containers.

## FS 86003

**Barnett, J.P.; McGilvy, J.M.** 1986. Periodicity in germination of stored slash and longleaf pine seeds. In: Proceedings - 9th North American Forest Biology Workshop, physiologic and genetics basis of forest decline; 1986 June 15-18; Stillwater, OK: Oklahoma State University:51-55.

*DESCRIPTORS*: speed of germination; germination value; product of mean daily germination; peak value.

## FS 86004

**Cao, Q.V.; Pepper, W.D.** 1986. Predicting inside bark diameter for shortleaf, loblolly, and longleaf pines. Southern Journal of Applied Forestry. 10(4):220-224.

*DESCRIPTORS*: bark; diameter; prediction; mathematical models.

## FS 86005

**English, J.T.; Ploetz, R.C.; Barnard, E.L.** 1986. Seedling blight of longleaf pine caused by a binucleate *Rhizoctonia solani*-like fungus. Plant Disease 70:148-150.

## FS 86006

**Funk, A.** 1986. Two new Discomycetes on Pinus. Mycotaxon. 27:283-288.

*DESCRIPTORS*: fungi; plant pathogens; taxonomy; new taxa.

## FS 86007

**Gibson, M.D.; McMillin, C.W.; Shoulders, E.** 1986. Moisture content and specific gravity of the four major southern pines under the same age and site conditions. Wood and Fiber Science. 18(3):428-435.

*DESCRIPTORS*: moisture content; specific gravity; site factors.

## FS 86008

**Gilly, S.P.; Barnard, E.L.; Schroeder, R.A.** 1986. Field trials for control of *Rhizoctonia* blight of longleaf pine seedlings: effects of seedbed planting densities, fungicides and mulches. In: South, D.B., ed. Proceedings of the International Symposium on Nursery Management Practices for the Southern Pines; 1985 August 4-9; Montgomery, AL: Auburn University Alabama Agricultural Experiment Station:476-485.

*DESCRIPTORS*: seedlings; disease control; blights; forest nurseries; plant density; seedbeds; benomyl; thiophanate-methyl; mancozeb; benodanil; mulches.

## FS 86009

**Griggs, M.M.; Schmidt, R.A.** 1986. Disease progress of *Scirrhia acicola* in single and mixed family plantings of resistant and susceptible longleaf pine. In: Peterson, G.W., tech. coord. Proceedings - recent research conference on conifer needle diseases; 1984 October 14-18; Gulfport, MS: Gen. Tech. Rep. WO-50. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:5-10.

*DESCRIPTORS*: disease resistance; susceptibility; epidemics; brown spot disease; dieback; mixed conifers; varietal reactions.

## FS 86010

**Hatchell, G.E.** 1986. Nursery cultural practices affect field performance of longleaf pine. In: South, D.B., ed. Proceedings of the International Symposium on Nursery Management Practices for the Southern Pines; 1985 August 4-9; Montgomery, AL: Auburn University Alabama Agricultural Experiment Station:148-156.

*DESCRIPTORS*: seedlings; forest nurseries; growth; survival; height; inoculation; seedbeds; plant density; root pruning.

## FS 86011

**Hooper, R.G.; Harlow, R.F.** 1986. Forest stands selected by foraging red-cockaded woodpeckers. Res. Pap. SE-259. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 10 p.

*DESCRIPTORS*: birds; ecology; management; conservation.

## FS 86012

**Hu, Shih-Chang; Burns, P.Y.** 1986. Longleaf pine: a bibliography, 1858-1984. Res. Rep. No. 6. Baton Rouge, LA: School of Forestry, Wildlife, and Fisheries, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center. 93 p.

*DESCRIPTORS*: bibliography.

## FS 86013

**Hughes, J.S.; Evans, D.L.; Burns, P.Y.; Hill, J.M.** 1986. Identification of two southern pine species in high-resolution aerial MSS data. Photogrammetric Engineering and Remote Sensing. 52(8):1175-1180.

*DESCRIPTORS*: identification; forest surveys; multispectral imagery; reflectance.

## FS 86014

**Jewell, F.F., Sr.** 1986. Histological studies of *Scirrhia acicola* (Dearn.) Siggers and other needle-inhabiting fungi on longleaf and loblolly pines. In: Peterson, G.W., tech. coord. Proceedings - recent research on conifer needle diseases; 1984 October 14-18; Gulfport, MS: Gen. Tech. Rep. WO-50. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:1-4.

*DESCRIPTORS*: conifer needles; brown spot disease; fungi; histology; plant pathology; tissue analysis.

## FS 86015

**Kais, A.G.; Cordell, C.E.; Affeltranger, C.E.** 1986. Benomyl root treatment controls brown-spot disease on longleaf pine in the southern United States. Forest Science. 32(2):506-511.

*DESCRIPTORS*: seedlings; root treatment; benomyl; growth rate; survival; soil texture; infection.

## FS 86016

**Kais, A.G.; Cordell, C.E.; Affeltranger, C.E.** 1986. Nursery application of benomyl fungicide for field control of brown-spot needle blight (*Scirrhia acicola* (Dearn.) Sigg.) on longleaf pine (*Pinus palustris* Mill.) Tree Planters' Notes. 37(1):5.

*DESCRIPTORS*: benomyl; root treatment; planting stock; disease control; survival.

**FS 86017**

**Kais, A.G.; Griggs, M.M.** 1986. Control of brown spot needle blight infection on longleaf pine through benomyl treatment and breeding. In: Peterson, G.W., tech. coord. Proceedings - recent research on conifer needle diseases; 1984 October 14-18; Gulfport, MS: Gen. Tech. Rep. WO-50. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:15-19.

*DESCRIPTORS*: brown spot; fungus control; benomyl; root treatment; disease resistance; plant breeding.

**FS 86018**

**Kandya, A.K.; Ogino, K.** 1986. Reserve dry weight of seed: a significant factor governing the germination potential of seeds in some conifers. *Journal of Tropical Forestry*, 2(1):21-26.

*DESCRIPTORS*: seed germination; seed weight; seed characteristics.

**FS 86019**

**Kraus, J.F.** 1986. Brown spot needle blight susceptibility of longleaf pine seed sources in Georgia and Florida. In: Peterson, G.W., tech. coord. Proceedings - recent research on conifer needle diseases; 1984 October 14-18; Gulfport, MS: Gen. Tech. Rep. WO-50. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:11-14.

*DESCRIPTORS*: conifer needles; brown spot disease; provenance; disease resistance; breeding aims; progeny testing.

**FS 86020**

**Kuhlman, E.G.** 1986. Impact of annosus root rot minimal 22 years after planting pines on root rot infested sites. *Southern Journal of Applied Forestry*, 10(2):96-98.

*DESCRIPTORS*: root rot; *heterobasidion annosum*; assessment; regeneration.

**FS 86021**

**Lewis, C.E.; Harshbarger, T.J.** 1986. Burning and grazing effects on bobwhite foods in the Southeastern Coastal Plain. *Wildlife Society Bulletin*, 14(4):455-459.

*DESCRIPTORS*: prescribed burning; grazing effects; habitat destruction; feed grasses; wildlife management.

**FS 86022**

**Marx, D.H.; Hatchell, G.E.** 1986. Root stripping of ectomycorrhizae decreases field performance of loblolly and longleaf pine seedlings. *Southern Journal of Applied Forestry*, 10(3):173-179.

*DESCRIPTORS*: seedlings; growth rate; stand establishment; rooting.

**FS 86023**

**McClanahan, T.R.** 1986. Seed dispersal from vegetation islands. *Ecological Modeling*, 32(4):301-309.

*DESCRIPTORS*: seed dispersal; islands; revegetation; plant density; plant community analysis; models; ecosystems.

**FS 86024**

**Munson, K.; Watts, J.; Dippon, D.; Flinchum, M.** 1986. Forestry information system. 6. Silvicultural practices. Circ. 632. Gainesville, FL: Florida Cooperative Extension Service. 20 p.

*DESCRIPTORS*: silviculture; computer software.

**FS 86025**

**Pehl, C.E.; Shellnutt, H.E., Jr.** 1986. Forest floor and soil nutrient conditions in the Georgia Sandhills. Res. Pap. No. 62. Macon, GA: Georgia Forestry Commission. 11 p.

*DESCRIPTORS*: forest litter; nutrients; soil chemistry; site types; site preparation; mechanical methods; chemical treatment.

**FS 86026**

**Sluder, E.R.** 1986. Gains from first-cycle selection in slash and longleaf pines. *Silvae Genetica*, 35(4):155-159.

*DESCRIPTORS*: plant breeding; genetic gain; heritability; disease resistance; selection differential.

**FS 86027**

**Smith, D.M.** 1986. The practice of silviculture. New York, John Wiley and Sons. 500 p.

**FS 86028**

**South, D.B.** 1986. Diphenylether herbicides in southern pine nurseries. In: South, D.B., ed. Proceedings of the International Symposium on Nursery Management Practices for the Southern Pines; 1985 August 4-9; Montgomery, AL: Auburn University Alabama Agricultural Experiment Station:441-453.

*DESCRIPTORS*: weed control; forest nurseries; herbicides; structure activity relationships; tolerances.

**FS 86029**

**South, D.B.** 1986. Herbicides for southern pine seedbeds. *Southern Journal of Applied Forestry*, 10(3):152-157.

*DESCRIPTORS*: forest nurseries; weed control; herbicides; cost benefit analysis.

**FS 86030**

**Thill, R.E.; Bellemore, J.C.** 1986. Understory responses to fertilization of eroded Kisatchie soil in Louisiana. Res. Note SO-330. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 6 p.

*DESCRIPTORS*: fertilizers; ecology; ground vegetation; underwood; soil types.

**FS 86031**

**Thill, R.E.; Martin, A., Jr.** 1986. Deer and cattle diet overlap on Louisiana pine-bluestem range. *Journal of Wildlife Management*, 50(4):707-713.

*DESCRIPTORS*: cattle; diets; competition; rangelands; seasons; grazing; burning; foraging.

**FS 86032**

**Tran, A.V.; Chambers, R.P.** 1986. Chemicals from biomass: the identification and solution of inhibition caused by wood extractives on the fermentation of a southern pine prehydrolyzate to butanediol. In: Smith, W.H. ed. Biomass energy development; New York: Plenum Press:561-572.

*DESCRIPTORS*: fermentation; butanediol; biomass; inhibition; wood extractives; mannose; inhibitors; wood sugar.

**FS 86033**

**Voight, W., Jr.** 1986. Report on the longleaf pine. *American Forests*, 92(5):42-45, 63.

*DESCRIPTORS*: artificial regeneration; planting; forest nurseries; container grown plants.



## FS 86034

**Voazo, J.A.; Bonner, F.T.** 1986. Using electrical conductivity of seed leachate as a measure of seed quality in southern pines. In: South, D.B., ed. Proceedings of the International Symposium on Nursery Management Practices for the Southern Pines; 1985 August 4-9; Montgomery, AL: Auburn University Alabama Agricultural Experiment Station:94-101.

*DESCRIPTORS:* seeds; quality; electrical conductivity; exudates.

## FS 86035

**Wade, D.D.; Johansen, R.W.** 1986. Effects of fire on southern pine: observations and recommendations. Gen. Tech. Rep. SE-14. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 14 p.

*DESCRIPTORS:* fire damage; prescribed burns.

## FS 86036

**Wood, G.W.** 1986. Influences of forest fertilization on South Carolina deer forage quality. Southern Journal of Applied Forestry. 10(4):203-206.

*DESCRIPTORS:* fertilizers; deer; management; browse; foliage; responses; plant composition.

## FS 87001

**Allen, H.L.; Dougherty, P.M.; Campbell, R.G.** 1987. Manipulation of water and nutrients - practice and opportunity in southern U.S. pine forests. Forest Ecology and Management. 30(1-4):437-453.

*DESCRIPTORS:* silviculture; water management; nutrients; forest growth; drainage; fertilizers; forestry practices; models; site preparation; thinning.

## FS 87002

**Barnett, J.P.; Kais, A.G.** 1987. Longleaf pine seedling storability and resistance to brown-spot disease improved by adding benomyl to the packing medium. In: Phillips, D.R., comp. Proceedings - 4th biennial southern silvicultural research conference; 1986 November 4-6; Atlanta, GA: Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:222-224.

*DESCRIPTORS:* longleaf pine; seedling survival; brown-spot disease control; *Scirrhia acicola*.

## FS 87003

**Bonner, F.T.** 1987. Cone storage and seedling quality in longleaf pine. Res. Note SO-341. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 4 p.

*DESCRIPTORS:* cones; storage; seed germination; moisture content; cone storage; seed quality.

## FS 87004

**Boyer, W.D.** 1987. Annual and geographic variations in cone production by longleaf pine. In: Phillips, D.R., comp. Proceedings - 4th biennial southern silvicultural research conference; 1986 November 4-6; Atlanta, GA: Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:73-76.

## FS 87005

**Boyer, W.D.** 1987. Volume growth loss: a hidden cost of periodic prescribed burning in longleaf pine? Southern

Journal of Applied Forestry. 11(3):154-157.

*DESCRIPTORS:* prescribed burning; growth; hardwoods.

## FS 87006

**Conner, R.N.; O'Halloran, K.A.** 1987. Cavity-tree selection by red-cockaded woodpeckers as related to growth dynamics of southern pines. Wilson Bulletin. 99(3):398-412.

## FS 87007

**Creighton, J.L.; Zutter, B.R.; Glover, G.R.; Gjerstad, D.H.** 1987. Planted pine growth and survival responses to herbaceous vegetation control, treatment duration, and herbicide application technique. Southern Journal of Applied Forestry. 11(4):223-227.

*DESCRIPTORS:* herbicide application; weeds; survival; growth rate; plant height; tree diameter/girth.

## FS 87008

**Crocker, T.C., Jr.** 1987. Longleaf pine: a history of man and a forest. R8-FR7. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 37 p.

*DESCRIPTORS:* history; regeneration; logging; silviculture; forest management.

## FS 87009

**Delcourt, P.A.; Delcourt, H.R.** 1987. Long-term forest dynamics of the temperate zone. New York: Springer-Verlag. 439 p.

## FS 87010

**Dennington, R.W.; Sirmon, G.A.** 1987. Longleaf pine - a favorite on the rebound. Forest Farmer 46(8):9-10.

## FS 87011

**Dobrowski, J.P.; Blackburn, W.H.; Grelen, H.E.** 1987. Sediment production from long-term burning of a longleaf pine-bluestem association. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:251-260.

*DESCRIPTORS:* prescribed burning; sediments; sandy loam soils; silty soils.

## FS 87012

**Farrar, R.M., Jr.** 1987. Stem-profile functions for predicting multiple-product volumes in natural longleaf pines. Southern Journal of Applied Forestry. 11(3):161-167.

*DESCRIPTORS:* stand measurement; volume determination; prediction; calculation; ratios.

## FS 87013

**Fatzinger, C.W.; Siegfried, B.D.; Wilkinson, R.C.; Nation, J.L.** 1987. Trans-verbenol, turpentine, and ethanol as trap baits for the black turpentine beetle, (*Dendroctonus terebrans*), and other forest coleoptera in north Florida. Journal of Entomological Science. 22(3):201-209.

*DESCRIPTORS:* insect traps; baits; ethanol; turpentine; terpenoids; pheromones.

## FS 87014

**Frost, C.C.; Musselman, L.J.** 1987. History and vegeta-

tion of the Blackwater Ecologic Preserve. *Castanea*. 52(1):16-46.

*DESCRIPTORS*: nature reserves; vegetation; plant community analysis.

#### FS 87015

**Hamilton, R.B.; Yurkunas, V.G.** 1987. Avian use of habitats in the longleaf-slash pine forests of Louisiana. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:125-137.

*DESCRIPTORS*: national forests; wildlife; birds; habitat selection.

#### FS 87016

**Hare, R.C.** 1987. Increase longleaf pine seed yields by inhibiting conelet abortion. *Southern Journal of Applied Forestry*. 11(1):6-9.

*DESCRIPTORS*: seed production; cones; cytokinins; yields; boric acid.

#### FS 87017

**Hatchell, G.E.** 1987. Nursery cultural practices, seedling morphology, and field performance of longleaf pine. In: Phillips, D.R. comp. Proceedings - 4th biennial southern silvicultural research conference. 1986 4-6 November; Atlanta, GA.; Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:61-66.

#### FS 87018

**Hatchell, G.E.; Marx, D.H.** 1987. Response of longleaf, sand, and loblolly pines to *Pisolithus* ectomycorrhizae and fertilizer on a sandhills site in South Carolina. *Forest Science*. 33(2):301-315.

*DESCRIPTORS*: seedlings; slow release fertilizers; sandy soils.

#### FS 87019

**Johnson, M.K.** 1987. Inventory of mammals and birds on Bigfoot and Airey grazing allotments of the DeSoto National Forest, Mississippi. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:166-170.

*DESCRIPTORS*: national forests; wildlife; mammals; birds; seasonality; habitats; grazing lands.

#### FS 87020

**Kilpatrick, W.W.** 1987. Soils of the loblolly/shortleaf and longleaf/slash pine project: Grant and Vernon Parishes, Louisiana. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service,

Southern Forest Experiment Station:67-72.

*DESCRIPTORS*: soil types; soil survey; soil mapping.

#### FS 87021

**Kormanik, P.P.; Ruehle, J.L.** 1987. Lateral root development may define nursery seedling quality. In: Phillips, D.R. comp. Proceedings - 4th biennial southern silvicultural research conference. 1986 4-6 November; Atlanta, GA.; Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:225-229.

#### FS 87022

**Kossuth, S.V.; McReynolds, R.D.** 1987. Induced changes in monoterpene composition of slash and longleaf pines. In: Proceedings - 14th plant growth regulator Society of America annual meeting. Lake Alfred, FL:268-277.

*DESCRIPTORS*: oleoresins; monoterpene; chipping; chemical composition; treatment; sulfuric acid; 2-chloroethylphosphonic acid.

#### FS 87023

**Kulhavy, D.L.; Watterson, K.G.; Kroll, J.C.; Meeker, J.R.** 1987. Management and pest management considerations on droughty soils: four years results. In: Phillips, D.R. comp. Proceedings - 4th biennial southern silvicultural research conference. 1986 4-6 November; Atlanta, GA.; Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:559-562.

#### FS 87024

**Kush, J.S.; Meldahl, R.S.; Dwyer, S.P.; Farrar, R.M., Jr.** 1987. Naturally regenerated longleaf pine growth and yield research. In: Phillips, D.R. comp. Proceedings - 4th biennial southern silvicultural research conference. 1986 4-6 November; Atlanta, GA.; Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:343-344.

#### FS 87025

**Labisky, R.F.; Hovis, J.A.** 1987. Comparison of vertebrate wildlife communities in longleaf pine and slash pine habitats in north Florida. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:201-228.

*DESCRIPTORS*: national forests; wildlife; population density; habitat selection.

#### FS 87026

**Lantz, C.W.** 1987. "Insignificant" events may cause plantation failures. R8-MB 11, Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 2 p.

*DESCRIPTORS*: reforestation.

#### FS 87027

**Lantz, C.W.; Kraus, J.F.** 1987. A guide to southern pine seed sources. Gen. Tech. Rep. SE-43. Asheville, NC:

U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 34 p.

*DESCRIPTORS*: seeds.

**FS 87028**

**Lauer, D.K.** 1987. Seedling size influences early growth of longleaf pine. *Tree Planters' Notes*. 38(3):16-17.

*DESCRIPTORS*: seedling culture; growth; survival; seedling size; scirrhia.

**FS 87029**

**Levi, M.P.** 1987. Pressure-treated southern pine—some questions and answers. AG 99. Raleigh, NC: North Carolina Agricultural Extension Service, North Carolina State University. 2 p.

*DESCRIPTORS*: preservative treated wood; guidelines.

**FS 87030**

**Mullin, K.; Williams, K.L.** 1987. Mammals of longleaf-slash pine stands in central Louisiana. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., *Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests*; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:121-124.

*DESCRIPTORS*: national forests; wildlife; mammals; habitat selection; tree age.

**FS 87031**

**Myers, R.L.; White, D.L.** 1987. Landscape history and changes in sandhill vegetation in north-central and south-central Florida. *Bulletin of the Torrey Botanical Club*. 114(1):21-32.

*DESCRIPTORS*: synecology; fires; land use history; vegetation types.

**FS 87032**

**O'Meara, T.E.; Abbott, M.J.** 1987. Gopher tortoise response to summer burning in longleaf pine/turkey oak. Sandhills annual performance report. Nongame Wildlife Program. Tallahassee, FL: Nongame Wildlife Section, Division of Wildlife, Florida Game and Fresh Water Fish Commission. 7 p.

*DESCRIPTORS*: gopher tortoise; reptile populations; burning.

**FS 87033**

**Pearson, H.A.; Grelen, H.E.; Parresol, B.R.; Wright, V.L.** 1987. Detailed vegetative description of the longleaf-slash pine type, Vernon District, Kisatchie National Forest, Louisiana. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., *Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests*; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:107-115.

*DESCRIPTORS*: national forests; forest types; vegetation types; botanical composition.

**FS 87034**

**Pearson, H.A.; Lohofener, R.R.; Wolfe, J.L.** 1987. Amphibians and reptiles on longleaf-slash pine forests in

southern Mississippi. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., *Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests*; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:157-165.

*DESCRIPTORS*: national forests; amphibians; reptiles; habitat selection.

**FS 87035**

**Riekerk, H.** 1987. Hydrologic effects of flatwoods silviculture. In: Phillips, D.R. comp. *Proceedings - 4th biennial southern silvicultural research conference*. 1986 4-6 November; Atlanta, GA.; Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:321-325.

**FS 87036**

**Rounsaville, M.G.** 1987. Woodpeckers, recreationists and lumbermen cheer the success of artificial regeneration of longleaf pine. In: *Proceedings - National Silviculture Workshop: silviculture for all resources*; Sacramento, CA; 1987, 11-14 May; Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington Office:104-114.

*DESCRIPTORS*: artificial regeneration; wildlife management.

**FS 87037**

**Rowell, R.M.; Esenther, G.R.; Nicholas, D.D.; Nilsson, T.** 1987. Biological resistance of southern pine and aspen flakeboards made from acetylated flakes. *Journal of Wood Chemistry and Technology*. 7(3):427-440.

*DESCRIPTORS*: particleboard; bacteria; decay fungi; resistance; testing.

**FS 87038**

**Schmidting, R.C.** 1987. Relative performance of longleaf compared to loblolly and slash pines under different levels of intensive culture. In: Phillips, D.R. comp. *Proceedings - 4th biennial southern silvicultural research conference*. 1986 4-6 November; Atlanta, GA.; Gen. Tech. Rep. SE-42. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:395-400.

**FS 87039**

**South, D.B.** 1987. A re-evaluation of Wakeley's 'critical tests' of morphological grades of southern pine nursery stock. *South African Forestry Journal*. 142:56-59.

*DESCRIPTORS*: seedlings; morphology; planting stock; quality.

**FS 87040**

**Stanton, W.M.; Hamilton, R.A.** 1987. Producing longleaf pine straw. *Woodland Owner Notes No. 18*. Raleigh, NC: North Carolina Agricultural Extension Service. 3 p.

**FS 87041**

**Stewart, A.W.; Hurst, G.A.** 1987. Vegetation in the longleaf-slash pine forest, Biloxi district, Desoto National Forest, Mississippi. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., *Proceedings - Southern Evalu-*

ation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:149-155.

**DESCRIPTORS:** vegetation types; botanical composition; understory vegetation.

#### FS 87042

**Summerville, K.O.** 1987. Seed yields per bushel: orchard vs natural stands. In: Proceedings of the 19th southern forest tree improvement conference. 1987 June 16-18; College Station, TX: No. 41. Southern Forest Tree Improvement Committee:190-194.

**DESCRIPTORS:** seeds; yields; forest plantations; natural distribution.

#### FS 87043

**Tanner, G.W.** 1987. Soils and vegetation of the longleaf slash pine forest type, Apalachicola National Forest, Florida. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:186-200.

**DESCRIPTORS:** vegetation types; botanical composition; soil types; overstory vegetation; understory vegetation.

#### FS 87044

**Tschinkel, W.R.** 1987. Seasonal life history and nest architecture of a winter-active ant, *Prenolepis imparis*. *Insectes Sociaux*. 34(3):143-164.

**DESCRIPTORS:** formicidae; natural enemies; predators; foraging; foraging period; biology; behavior.

#### FS 87045

**Van Lear, D.H.; Jones, S.M.** 1987. An example of site classification in the Southeastern coastal plain based on vegetation and land types. *Southern Journal of Applied Forestry*. 11(1):23-28.

**DESCRIPTORS:** plant communities; Savannah River Plant; forest ecosystems.

#### FS 87046

**Williams, K.L.; Mullin, K.** 1987. Amphibians and reptiles of longleaf-slash pine stands in central Louisiana. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:116-120.

**DESCRIPTORS:** national forests; amphibia; reptiles; habitat selection.

#### FS 87047

**Wolfe, J.L.; Lohofener, R.** 1987. The small mammal fauna of a longleaf-slash pine forest in southern Mississippi. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecologi-

cal, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:171-177.

**DESCRIPTORS:** national forests; mammal; habits.

#### FS 87048

**Wood, J.C.; Blackburn, W.H.; Pearson, H.A.; Hunter, T.K.; Knight, R.W.** 1987. Assessment of silvicultural and grazing treatment impacts of infiltration and runoff water quality of longleaf-slash pine forest, Kisatchie National Forest, Louisiana. In: Pearson, H.A., Smeins, F.E., Thill, R.E., comp., Proceedings - Southern Evaluation Workshop, ecological, physical and socioeconomic relationships within southern National Forests; 1987 May 26-27; Long Beach, MS: Gen. Tech. Rep. SO-68. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:245-249.

**DESCRIPTORS:** national forests; intensive forestry; grazing effects; runoff water; infiltration; water composition and quality.

#### FS 88001

**Barnett, J.P.; Brissette, J.C.; Kais, A.G.; Jones, J.P.** 1988. Improving field performance of southern pine seedlings by treating with fungicides before storage. *Southern Journal of Applied Forestry*. 12(4):281-285.

**DESCRIPTORS:** seedlings; benomyl; survival; storage.

#### FS 88002

**Bechtold, W.A.; Ruark, G.A.** 1988. Structure of pine stands in the Southeast. Res. Pap. SE-274. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 185 p.

**DESCRIPTORS:** forest surveys; southern states.

#### FS 88003

**Boyer, W.D.** 1988. Effects of site preparation and release on the survival and growth of planted bare-root and container-grown longleaf pine. Georgia For. Res. Pap. 76. Georgia Forestry Commission, Research Division. 9 p.

**DESCRIPTORS:** herbicide application; site preparation; release.

#### FS 88004

**Christensen, N.L.** 1988. Vegetation of the Southeastern Coastal Plain. In: Barbour, M.G.; Billings, W.D. eds. *North American Terrestrial Vegetation*. New York; Cambridge University Press:317-363.

#### FS 88005

**Fatzinger, C.W.** 1988. Estimating cone and seed production and monitoring pest damage in southern pine seed orchards. Res. Pap. SE-271. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 30 p.

**DESCRIPTORS:** seeds; viability; diseases; pests.

#### FS 88006

**Gates, C.A.; Tanner, G.W.** 1988. Effects of prescribed burning on herbaceous vegetation and pocket gophers (*Geomys pinetis*) in a sandhill community. *Florida Scientist*. 51(3):129-139.

*DESCRIPTORS*: prescribed burning; herbage; fire effects; biomass; botanical composition; pocket gopher; plant communities; plant succession; dunes.

**FS 88007**

**Govindaraju, D.R.** 1988. Life histories, neighborhood sizes, and variance structure in some North American conifers. *Biological Journal of the Linnean Society*. 35(1):69-78.

*DESCRIPTORS*: synecology.

**FS 88008**

**Hooper, R.G.** 1988. Longleaf pines used for cavities by red-cockaded woodpeckers. *Journal of Wildlife Management*. 52(3):392-398.

*DESCRIPTORS*: woodpeckers; population density; forest damage; statistical analysis; tree cavities.

**FS 88009**

**Kulhavy, D.L.; Mitchell, J.H.; Conner, R.N.** 1988. The southern pine beetle and the red-cockaded woodpecker: potential for interaction. In: Payne, T.L.; Saarenmaa, H. *Integrated control of Scolytid bark beetles*. Blacksburg, VA: College of Agriculture and Life Science, Virginia Polytechnic Institute and State University:337-343

*DESCRIPTORS*: biological control; interactions; woodpeckers.

**FS 88010**

**Lantz, C.W.; Barnett, J.P.; Kais, A.G.** 1988. Benomyl improves storability and brown spot resistance of longleaf pine seedlings. *Mngt. Bull. R8 MB-17*. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 2 p.

*DESCRIPTORS*: fungal diseases; mycosphaerella; planting stock; storage; fungicides; benomyl.

**FS 88011**

**Lewis, C.E.; Swindel, B.F.; Tanner, G.W.** 1988. Species diversity and diversity profiles: concept, measurement, and application to timber and range management. *Journal of Range Management*. 41(6):466-469.

*DESCRIPTORS*: cattle; grazing; agroforestry; plantations; silviculture; ecology; site preparation; management; silvopastoral systems; botanical composition.

**FS 88012**

**Lewis, C.E.; Tanner, G.W.; Terry, W.S.** 1988. Plant responses to pine management and deferred-rotation grazing in north Florida. *Journal of Range Management*. 41(6):460-465.

*DESCRIPTORS*: livestock; grazing systems; prescribed burning; grazing effects; plant succession.

**FS 88013**

**Moorhead, D.J.** 1988. Selecting and planting pine seedlings. *Bull. No. 983*. Athens, GA: University of Georgia, College of Agriculture, Cooperative Extension Service. 22 p.

*DESCRIPTORS*: seedlings; planting methods.

**FS 88014**

**Nelson, R.; Krabill, W.; Tonelli, J.** 1988. Estimating forest biomass and volume using airborne laser data. *Re-*

*mote Sensing of Environment*. 24(2):247-267.

*DESCRIPTORS*: remote sensing; lasers; stand characteristics; volume determination; weight determination.

**FS 88015**

**Noss, R.F.** 1988. The longleaf pine landscape of the Southeast: almost gone and almost forgotten. *Endangered Species UPDATE*. 5(5):1-8.

**FS 88016**

**Ostmeyer, J.G.; Elder, T.J.; Littrell, D.M.; Tatarchuk, B.J.; Winandy, J.E.** 1988. Spectroscopic analysis of southern pine treated with chromated copper arsenate. I. X-ray photoelectron spectroscopy (XPS)-1. *Journal of Wood Chemistry and Technology*. 8(3):413-439.

*DESCRIPTORS*: x-ray photoelectron spectroscopy; copper arsenate; wood preservatives.

**FS 88017**

**Platt, W.J.; Evans, G.W.; Davis, M.M.** 1988. Effects of fire season on flowering of forbs and shrubs in longleaf pine forests. *Oecologia*. 76(3):353-363.

**FS 88018**

**Platt, W.J.; Evans, G.W.; Rathbun, S.L.** 1988. The population dynamics of a long-lived conifer (*Pinus palustris* Mill.). *The American Midland Naturalist*. 131(4):491-525.

*DESCRIPTORS*: population dynamics; plant communities; forest ecology; habitat selection; dispersion; revegetation; plant succession; colonizing ability.

**FS 88019**

**Ranasinghe, M.A.S.K.; Wilkinson, R.C.** 1988. Seasonal occurrence of *Gnophothrips fuscus* (Thysanoptera: Phlaeothripidae) on slash pine in Florida. *Florida Entomologist*. 71(3):384-387.

*DESCRIPTORS*: seedlings; thysanoptera; seasonal variation; trapping.

**FS 88020**

**Richardson, D.R.; Williamson, G.B.** 1988. Allelopathic effects of shrubs of the sand pine scrub on pines and grasses of the sandhills. *Forest Science*. 34(3):592-605.

*DESCRIPTORS*: allelopath; chemical composition; fires; mortality; scrub; fuel accumulation.

**FS 88021**

**Rome, A.** 1988. Vegetation variation in a pine-wiregrass savanna in the Green Swamp, North Carolina. *Castanea*. 53(2):122-131.

**FS 88022**

**Runion, G.B.; Bruck, R.I.** 1988. Effects of thiabendazole-DMSO treatment of longleaf pine seed contaminated with *Fusarium subglutinans* on germination and seedling survival. *Plant Disease*. 72(10):872-874.

*DESCRIPTORS*: seeds; cankers; seed treatment; thiabendazole; DMSO; fungicides; seed germination; seedling emergence; survival; disease control.

**FS 88023**

**South, D.B.** 1988. Diphenylether herbicides used on southern pine seedlings in the United States. *Aspects of Applied Biology*. 16:215-222.

*DESCRIPTORS*: seedlings; bifenox; herbicides; nitrogen; oxyfluorfen; weed control; forest nurseries.

**FS 88024**

- South, D.B.; Williams, H.M.; Webb, A.** 1988. Should fall irrigation be applied at nurseries located on sands? Southern Journal of Applied Forestry. 12(4):273-274.  
*DESCRIPTORS*: alpine sand; seedling; irrigation; nurseries.

**FS 88025**

- Strub, M.R.; Sprinz, P.T.** 1988. Comparisons of southern pine height growth. Gen. Tech. Rep. NC-120. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station:428-434.  
*DESCRIPTORS*: tree age; height.

**FS 88026**

- Tschinkel, W.R.** 1988. Distribution of the fire ants *Solenopsis invicta* and *S. geminata* (Hymenoptera: Formicidae) in northern Florida in relation to habitat and disturbance. Annals of the Entomological Society of America. 81(1):76-81.  
*DESCRIPTORS*: habitats; pastures; ecology; distribution; environmental factors.

**FS 88027**

- White, F.M.; Kunselman, M.B.; Robbins, D.H.; Crain, W.T.; Hood, C.A.; Precythe, H.W.; Moehler, F.A.** 1988. Establishment and growth of longleaf pine on droughty sites in North Carolina. For. Note No. 61. Raleigh, NC: North Carolina Forest Service, Division of Forest Resources. 35 p.

**FS 89001**

- Anderson, R.L.; Walkinshaw, C.H.** 1989. Correlation of greenhouse inoculations of longleaf pine with *Cronartium quercuum* f.sp. *fusiforme* with field ranking of resistance. Plant Disease. 73(10):859.  
*DESCRIPTORS*: testing; fungal diseases; rust diseases; resistance; methodology; genetics; variation; tree breeding.

**FS 89002**

- Barnett, J.P.** 1989. Shading reduces growth of longleaf and loblolly pine seedlings in containers. Tree Planters' Notes. 40(1):23-26.  
*DESCRIPTORS*: container grown plants; light flux; shading; seedlings; performance.

**FS 89003**

- Barnett, J.P.** 1989. Site preparation, containers, and soil types affect field performance of loblolly and longleaf pine seedlings. In: Miller, J.H. comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:155-158.  
*DESCRIPTORS*: seedlings; container grown plants; site preparation; survival; growth.

**FS 89004**

- Blanche, C.A.; Elam, W.W.; Hodges, J.D.; Bonner, F.T.; Marquez, A.C.** 1989. Accelerated aging: a potential vigor test for longleaf and slash pine seeds. In: Miller, J.H. comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service,

Southern Forest Experiment Station:107-114.

*DESCRIPTORS*: seeds; vigor; testing; aging; seed germination.

**FS 89005**

- Boyer, W.D.** 1989. Response of planted longleaf pine bare-root and container stock to site preparation and release: fifth-year results. In: Miller, J.H. comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:165-168.

*DESCRIPTORS*: container grown plants; seedlings; site preparation; vegetation management; plant competition; herbicides; survival; growth.

**FS 89006**

- Bridges, E.L.; Orzell, S.L.** 1989. Longleaf pine communities of the West Gulf Coastal Plain. Natural Areas Journal. 9(4):246-263.

*DESCRIPTORS*: savanna; wetland; upland; flatwoods.

**FS 89007**

- Buckner, E.** 1989. Evolution of forest types in the southeast. In: Waldrop, T.A. ed. Proceedings of pine-hardwood mixtures: a symposium on management and ecology of the type. 1989 April 18-19, Atlanta, GA; Gen. Tech. Rep. SE-58. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:27-33.

*DESCRIPTORS*: historical account; Indians.

**FS 89008**

- Caulfield, J.P.; Shoulders, E.; Lockaby, B.G.** 1989. Methods for including risk in species-site selection decisions. In: Miller, J.H. comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:181-186.

**FS 89009**

- Caulfield, J.P.; Shoulders, E.; Lockaby, B.G.** 1989. Risk-efficient species-site selection decisions for southern pines. Canadian Journal of Forest Research. 19(6):743-753.

*DESCRIPTORS*: forest economics; species choice; silviculture; statistical methods; profitability; investment; stumpage value.

**FS 89010**

- Choong, E.T.; Fogg, P.J.; Shoulders, E.** 1989. Effect of cultural treatment and wood-type on some physical properties of longleaf and slash pine wood. Journal of the Society of Wood Science and Technology. 21(2):193-206.

*DESCRIPTORS*: wood; fertilizer application; soil cultivation; cultural methods; physical properties; wood anatomy; shrinkage; moisture content; specific gravity; annual rings; correlation.

**FS 89011**

- Clark, A. III; Schmidting, R.C.** 1989. Effect of intensive culture on juvenile wood formation and wood properties of loblolly, slash, and longleaf pine. In: Miller, J.H.

comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:211-217.

*DESCRIPTORS*: intensive forestry; juvenile wood; cultivation; fertilizers; growth; tree diameter/girth; height; wood density.

**FS 89012**

**Clewell, A.F.** 1989. Natural history of wiregrass (*Aristida stricta* Michx.; Graminae). Natural Areas Journal. 9(4):223-233.

*DESCRIPTORS*: wiregrass; Atlantic Coastal Plain; floristic composition.

**FS 89013**

**Cooper, A.W.** 1989. Ecology of the pine-hardwood type. In: Waldrop, T. H., ed. Proceeding of pine-hardwood mixtures: a symposium on management and ecology of the types; 1989, 18-19 April, Atlanta, GA. Gen. Tech. Rep. SE-58. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:3-8.

*DESCRIPTORS*: pine; hardwood; savanna; woodland; Coastal Plain; Piedmont Plateau; oak; Southeastern Evergreen Region.

**FS 89014**

**Cordell, C.E.; Anderson, R.L.; Kais, A.G.** 1989. How to identify and control brown-spot disease on longleaf pine. North Carolina Protection Rep. 15. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 9 p.

*DESCRIPTORS*: identification; plant disease control.

**FS 89015**

**Dennington, R.W.** 1989. A crucial threshold for longleaf pine plantations. R8-MB41. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region.

**FS 89016**

**Duryea, M.L.; Edwards, J.C.** 1989. Pine-straw management in Florida's forests. Circ. 831. Gainesville, FL: Florida Cooperative Extension Service. 6 p.

**FS 89017**

**Elam, W.W.; Blanche, C.A.** 1989. Accelerated aging: a potential vigour test for multipurpose tree seeds. ACIAR Proceedings Series No. 28:63-67.

*DESCRIPTORS*: seeds; seed germination; seed treatment; vigor; accelerated aging; assessment.

**FS 89018**

**Glitzenstein, J.S.; Platt, W.J.** 1989. The effects of season and frequency of burning on dynamics of oaks and pines in north Florida savanna habitats. Supplement - Bulletin of the Ecological Society of America. 70(2):124.

*DESCRIPTORS*: season of burning; frequency of burning; sandhill pines; flatwood pines; mortality; habitats; recruitment.

**FS 89019**

**Govindaraju, D.R.** 1989. Viability selection and self-thinning in conifers. Evolutionary Trends in Plants. 3(2):121-126.

*DESCRIPTORS*: thinning; natural thinning; stand characteristics; mortality; genetics; natural selection.

**FS 89020**

**Hall, D.W.** 1989. Is it wiregrass? Natural Areas Journal. 9(4):219-222.

**FS 89021**

**Hardin, E.D.; White, D.L.** 1989. Rare vascular plant taxa associated with wiregrass (*Aristida stricta*) in the Southeastern United States. Natural Areas Journal. 9(4):234-245.

*DESCRIPTORS*: wiregrass; rare plant taxa; endangered taxa.

**FS 89022**

**Hartnett, D.C.; Krofta, D.M.** 1989. Fifty-five years of post-fire succession in a southern mixed hardwood forest. Bulletin of the Torrey Botanical Club. 116(2):107-113.

*DESCRIPTORS*: plant succession; vegetation types; mortality; stand characteristics; forest fires; fire ecology; synecology; species diversity.

**FS 89023**

**Hunter, M.L.** 1989. What constitutes an old-growth stand? Journal of Forestry. 87(8):33-35.

*DESCRIPTORS*: age criteria; disturbance criteria.

**FS 89024**

**Kush, J.S.; Bolton, R.K.; Bottenfield, T.R.; Meldahl, R.S.; Farrar, R.M. Jr.** 1989. Longleaf pine crown relationships: a preliminary analysis. In: Miller, J.H. comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep.SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:433-436.

*DESCRIPTORS*: crown cover; growth rate; tree age; diameter; increment.

**FS 89025**

**Lancia, R.A.; Roise, J.P.; Adams, D.A.; Lennartz, M.R.** 1989. Opportunity costs of red-cockaded woodpecker foraging habitat. Southern Journal of Applied Forestry. 13(2):81-85.

*DESCRIPTORS*: birds; wildlife; habitats; wildlife management; habitat improvement; foraging; rotations; volume; yields.

**FS 89026**

**Lipscomb, D.J.** 1989. Impacts of feral hogs on longleaf pine regeneration. Southern Journal of Applied Forestry. 13(4):177-181.

*DESCRIPTORS*: pests; pigs; feral varieties; natural regeneration; browsing damage; mortality.

**FS 89027**

**Loveless, R.W.; Pait, J.A. III; McElwain, T.** 1989. Response of longleaf pine to varying intensity of silvicultural treatments. In: Miller, J.H. comp. Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN: Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:159-164.

*DESCRIPTORS*: site preparation; survival; mechanical methods; diammonium phosphate; herbicides; vegetation management.

## FS 89028

**Michael, J.L.; Neary, D.G.; Wells, M.J.M.** 1989. Picloram movement in soil solution and streamflow from a coastal plain forest. *Journal of Environmental Quality*. 18(1):89-95.

*DESCRIPTORS*: weed control; picloram; leaching; pesticide persistence; mineral soils; soil solution; stream flow; environmental pollution; aerial application.

## FS 89029

**Murphy, P.A.; Farrar, R.M. Jr.** 1989. A new mortality (or survival) function for longleaf pine plantations. In: Miller, J.H. comp. *Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN; Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:427-432.*

*DESCRIPTORS*: plantations; mortality; height; mathematical models.

## FS 89030

**Noss, R.F.** 1989. Longleaf pine and wiregrass: keystone components to an endangered ecosystem. *Natural Areas Journal*. 9(4):234-235.

*DESCRIPTORS*: wiregrass; ecosystem; silviculture; conservation; preservation; biodiversity.

## FS 89031

**Ostmeyer, J.G.; Elder, T.J.; Winandy, J.E.** 1989. Spectroscopic analysis of southern pine treated with chromated copper arsenate. II. Diffuse reflectance Fourier transform infrared spectroscopy (DRIFT). *Journal of Wood Chemistry and Technology*. 9(1):105-122.

*DESCRIPTORS*: copper arsenate; infrared spectroscopy; wood preservatives.

## FS 89032

**Rebertus, A.J.; Williamson, G.B.; Moser, E.B.** 1989. Fire-induced changes in *Quercus laevis* spatial pattern in Florida sandhills. *Journal of Ecology*. 77(3):638-650.

*DESCRIPTORS*: forest fires; ecology; synecology; fires

## FS 89033

**Rebertus, A.J.; Williamson, G.B.; Moser, E.B.** 1989. Longleaf pine pyrogenicity and turkey oak mortality in Florida xeric sandhills. *Ecology*. 70(1):60-70.

*DESCRIPTORS*: fire; mortality; pyrogenicity; sandhills; turkey oak.

## FS 89034

**Ruark, G.A.; Bechtold, W.A.** 1989. Characterization of the hardwood component in southern pine cover types in the southeast. In: Waldrop, T.A. ed. *Proceedings of pine hardwood mixture: a symposium on management and ecology of the type; 1989 April 18-19, Atlanta, GA; Gen. Tech. Rep. SE-58; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:38-42.*

*DESCRIPTORS*: hardwood component, natural pine stands

## FS 89035

**Sirmon, G.A.; Dennington, R.W.** 1989. Longleaf pine management on the DeSoto National Forest — a case study.

*Southern Journal of Applied Forestry*. 13(1):34-40.

*DESCRIPTORS*: national forests; natural regeneration; artificial regeneration; site preparation; shelterwood; stand establishment; planting.

## FS 89036

**Thill, R.E.; Martin, A., Jr.** 1989. Deer and cattle diets on heavily grazed pine-bluestem range. *Journal of Wildlife Management*. 53(3):540-548.

*DESCRIPTORS*: feeding habits; pastures; cattle; deer; diets; browse; seasonal variation; forbs; wild animals; grasses; botanical composition; range management; management; rangelands; grazing.

## FS 89037

**Vozzo, J.A.** 1989. Comparative morphology of seed coat surfaces for seven species of *Pinus*. *Journal of the Mississippi Academy of Sciences*. 34:5-10.

*DESCRIPTORS*: seeds; seed morphology.

## FS 89038

**Vozzo, J.A.** 1989. Examining seed coat characteristics with energy dispersive X-ray spectroscopy. *ACIAR Proc. Series No. 28:41-43.*

*DESCRIPTORS*: plant composition; seeds; chemistry; testas; composition.

## FS 89039

**Wood, J.C.; Blackburn, W.H.; Pearson, H.A.; Hunter, T.K.** 1989. Infiltration and runoff water quality response to silvicultural and grazing treatments on a longleaf pine forest. *Journal of Range Management*. 42(5):378-381.

*DESCRIPTORS*: silviculture; grazing effects; interrill erosion; runoff; water quality.

## FS 89040

**Zahner, R.** 1989. Tree-ring series related to stand and environmental factors in south Alabama longleaf pine stands. In: Miller, J.H. comp. *Proceedings - 5th biennial southern silvicultural research conference; 1988 November 1-3; Memphis, TN; Gen. Tech. Rep. SO-74. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:193-197.*

*DESCRIPTORS*: growth rings; tree age; stand density; prescribed burning; site factors; climatic factors.

## FS 90001

**Amundson, R.G.; Belsky, A.J.; Dickie, R.C.** 1990. Fluoride deposition via litterfall in a coastal-plain pine plantation in South Carolina. *Water, Air, and Soil Pollution*. 50(3-4):301-310.

*DESCRIPTORS*: pollution; fluorine; fluoride; deposition; forest litter; soil morphology; habit; defoliation; decomposition; plant composition; aluminum; foliage; chemistry.

## FS 90002

**Barnett, J.P.; Lauer, D.K.; Brisette, J.C.** 1990. Regenerating longleaf pine with artificial methods. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:72-93.*



**FS 90003**

**Beasley, J.L.** 1990. Longleaf pine's place in the South's fourth forest. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:259-262.

**FS 90004**

**Boyer, W.D.** 1990. Growing-season burns for control of hardwoods in longleaf pine stands. Res. Pap. SO-256. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 7 p.

*DESCRIPTORS:* vegetation management; prescribed burning; hardwoods; spring burns; summer burns.

**FS 90005**

**Boyer, W.D.** 1990. Longleaf pine. In: Burns, R.M.; Honkala, B.H. tech. coord. Silvics of North America, Volume I Conifers. Agric. Hndbk. 654. Washington, D.C.: U.S. Department of Agriculture, Forest Service, Washington, Office:405-412.

**FS 90006**

**Boyer, W.D.; White, J.B.** 1990. Natural regeneration of longleaf pine. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:94-113.

**FS 90007**

**Brissette, J.C.; Elliott, M.; Barnett, J.P.** 1990. Producing container longleaf pine seedlings. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:52-70.

**FS 90008**

**Clark, A. III; Saucier, J.R.** 1990. Tables for estimating total-tree weights, stem weights, and volumes of planted and natural southern pines in the southeast. Georgia For. Res. Pap. 79. Georgia Forestry Commission, Research Division. 23 p.

*DESCRIPTORS:* weight tables.

**FS 90009**

**Coleman, T.L.; Gudapati, L.; Derrington, J.** 1990. Monitoring forest plantations using Landsat Thematic Mapper data. Remote Sensing of Environment. 33(3):211-221.

*DESCRIPTORS:* remote sensing; thematic mapper; stand characteristics; land use; plantations.

**FS 90010**

**Cordell, C.E.; Gramling, C.; Lowman, B.; Brown, D.** 1990. A precision seed sower for longleaf pine bareroot nursery seedlings. Tree Planters' Notes. 41(4):33-38.

*DESCRIPTORS:* seedlings; nurseries; sowing; seeder cultivators.

**FS 90011**

**Cordell, C.E.; Hatchell, G.E.; Marx, D.H.** 1990. Nursery culture of bare-root longleaf pine seedlings. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:38-51.

**FS 90012**

**Croker, T.C., Jr.** 1990. Longleaf pine - myths and facts. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:2-10.

**FS 90013**

**Cubbage, F.; Hodges, D.** 1990. The economics of managing longleaf pine. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:215-229.

**FS 90014**

**Daubenmire, R.** 1990. The *Magnolia grandiflora-Quercus virginiana* forest of Florida. American Midland Naturalist. 123(2):331-347.

*DESCRIPTORS:* vegetation types; synecology; fires.

**FS 90015**

**Dennington, R.W.** 1990. Regenerating longleaf pine with the shelterwood method. R8-MB47. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 2 p.

**FS 90016**

**Farrar, R.M., Jr.** 1990. Predictions of volume and volume growth in naturally-regenerated longleaf pine stands. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:170-192.

**FS 90017**

**Fatzinger, C.W.; Muse, H.D.; Miller, T.; Bhattacharyya, H.** 1990. Survey and pest monitoring system for southern pine seed orchards. Southern Journal of Applied Forestry. 14(3):147-154.

*DESCRIPTORS:* seed orchards; insect pests; monitoring; cones; yield.

**FS 90018**

**Fox, T.R.; Comerford, N.B.** 1990. Low-molecular-weight organic acids in selected forest soils of the southeastern USA. Soil Science Society of America Journal. 54(4):1139-1144.

*DESCRIPTORS:* rhizosphere; organic compounds; organic acids; forest soils; soil types (ecological); soil organic matter; soil chemistry.

**FS 90019**

**Harrington, C.A.** 1990. PPSITE — a new method of site evaluation for longleaf pine: model development and

user's guide. Gen. Tech. Rep. SO-80. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 31 p.

*DESCRIPTORS*: site factors; site preparation; computer software; models.

#### FS 90020

**Hatchell, G.E.; Muse, H.D.** 1990. Nursery cultural practices and morphological attributes of longleaf pine bare-root stock as indicators of early field performance. Res. Pap. SE-227. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 34 p.

*DESCRIPTORS*: seedling quality; bareroot seedlings; field experiments.

#### FS 90021

**Jewell, F.F., Sr.** 1990. Histopathology of longleaf pine needles infected by *Ploioderma hedgcockii* (Dearn.) Darker. European Journal of Forest Pathology. 20(1):24-31.

*DESCRIPTORS*: histopathology; foliage; diseases; fungal diseases.

#### FS 90022

**Johnson, B.; Jackson, R.** 1990. Durability of heartwood in treated southern pine bulkheads. Forest Products Journal. 40(7/8):41-46.

*DESCRIPTORS*: heartwood; wood preservatives; durability; marine structures; marine borers; creosote; penetration.

#### FS 90023

**Jones, F.E.** 1990. Long term management of longleaf pine - T.R. Miller Mill Company. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:237-240.

#### FS 90024

**Kelly, J.F.; Bechtold, W.A.** 1990. The longleaf pine resource. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station: 11-22.

#### FS 90025

**Kraus, J.F.; Sluder, E.R.** 1990. Gynecology of longleaf pine in Georgia and Florida. Res. Pap. SE-278. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 31 p.

*DESCRIPTORS*: geographic variation; survival and growth traits; adaptability.

#### FS 90026

**Landers, J.L.; Byrd, N.A.; Komarek, R.** 1990. A holistic approach to managing longleaf pine communities. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:135-167.

#### FS 90027

**Linde, F.V.; Hodges, J.** 1990. Prescriptions for successful longleaf management in south Georgia. In: Farrar, R.M., Jr. ed. Proceedings - Symposium on the management of longleaf pine. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:241-246.

#### FS 90028

**Marx, D.H.; Cordell, C.E.** 1990. Inoculation of fall- and spring-sown longleaf pine seedlings with *Pisolithus tinctorius*. Res. Note SE-358. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 5 p.

*DESCRIPTORS*: seedlings; inoculation; *Pisolithus tinctorius*; nurseries.

#### FS 90029

**Outcalt, K.W.; Lewis, C.E.** 1990. Response of wiregrass (*Aristida stricta*) to mechanical site preparation. In: Duever, L.C.; Ross, R.F. eds. Proceedings of symposium wiregrass biology and management: maintaining groundcover integrity in longleaf pine ecosystems; 1988, 13 October; Valdosta, GA: KBN Engineering, Gainesville, FL:1-12.

#### FS 90030

**Owston, P.W.; Miller, R.G.; Rietveld, W.J.; McDonald, S.E.** 1990. A quality-control system for improving conifer nursery stock. Tree Planters' Notes. 41(1):3-7.

*DESCRIPTORS*: planting stock; quality controls.

#### FS 90031

**Page, H.H., Jr.** 1990. Six-year growth response of longleaf pine (*Pinus palustris* Mill.) seedlings to varying intensities of site preparation treatments. For. Res. Rep. No. 4. Smurfit Group. 10 p.

*DESCRIPTORS*: site preparation; mechanical methods; fertilizers; weed control; nitrogen; phosphorus; plantations; burning; weed control; plant competition; growth rate.

#### FS 90032

**Pasek, E.A.; McIntyre, C.R.** 1990. Heat effects on fire retardant-treated wood. Journal of Fire Sciences. 8(6):405-420.

*DESCRIPTORS*: flame retardant finishes; monoammonium phosphate; organophosphorus compounds; boric acid; wood strength; thermal degradation; weight losses; dehydration; strength testing; temperature; relative humidity; hygroscopicity; acidity; heat; thermogravimetry; calorimetry.

#### FS 90033

**Roise, J.; Chung, J.; Lancia, R.; Lennartz, M.** 1990. Red-cockaded woodpecker habitat and timber management: production possibilities. Southern Journal of Applied Forestry. 14(1):6-12.

*DESCRIPTORS*: forest management; multiple use; birds; decision making.

#### FS 90034

**Rudolph, D.C.; Conner, R.N.; Turner, J.** 1990. Competition for red-cockaded woodpecker roost and nest cavities: effects of resin age and entrance diameter. Wilson

Bulletin. 102(1):23-36.

*DESCRIPTORS*: tree cavities; birds; biology; ecology.

**FS 90035**

**Rudolph, D.C.; Kyle, H.; Conner, R.N.** 1990. Red-cockaded woodpeckers vs rat snakes: the effectiveness of the resin barrier. *Wilson Bulletin*. 102(1):14-22.

*DESCRIPTORS*: resins; snakes; tree cavities; birds; biology; ecology.

**FS 90036**

**Sasnett, P.; Larson, D.; Foster, J.W., Jr.** 1990. Establishment of longleaf pine at Gulf States Paper Corporation. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:232-236.

**FS 90037**

**Schmidtling, R.C.; White, T.L.** 1990. Genetics and tree improvement of longleaf pine. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:114-127.

**FS 90038**

**Shoulders, E.** 1990. Identifying longleaf pine sites. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:23-37.

**FS 90039**

**Sirmon, G.A.** 1990. A prescription for successful management of longleaf pine. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:247-257.

**FS 90040**

**Snow, G.A.; Hoffard, W.H.; Cordell, C.E.; Kais, A.G.** 1990. Pest management in longleaf pine stands. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:128-134.

**FS 90041**

**Thomas, C.E.; Lohrey, R.E.** 1990. A diameter distribution model for thinned longleaf pine plantations: a beginning. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:193-208.

**FS 90042**

**Williams, C.E.** 1990. The pines of Virginia: identification, distribution and ecology. *Virginia Journal of Science*. 41(4B):478-486.

*DESCRIPTORS*: keys; distribution.

**FS 90043**

**Williston, H.L.; Guthrie, J.G.; Hood, C.A.** 1990. Managing and harvesting longleaf pine for specialty products. In: Farrar, R.M., Jr. ed. *Proceedings - Symposium on the management of longleaf pine*. 1989 April 4-6; Long Beach, MS. Gen. Tech. Rep. SO-75; New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:209-214.

**FS 91001**

**Barnett, J.P.** 1991. Effects of morphological grade on field performance of container-grown southern pine seedlings. In: Coleman, S.S.; Neary, D.G. eds. *Proceedings - 6th biennial southern silvicultural research conference*; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:94-99.

**FS 91002**

**Barnett, J.P.** 1991. Seedbed densities and sowing and lifting dates affect nursery development and field survival of longleaf pine seedlings. *Tree Planters' Notes*. 42(3):28-31.

*DESCRIPTORS*: nurseries; sowing; lifting; spacing; seedling growth; sowing date.

**FS 91003**

**Boyer, W.D.** 1991. Effects of a single chemical treatment on long-term hardwood development in a young pine stand. In: Coleman, S.S.; Neary, D.G. eds. *Proceedings - 6th biennial southern silvicultural research conference*; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:599-606.

**FS 91004**

**Bucholtz, G.A.; Lockey, R.F.; Wunderlin, R.P.; Binford, L.R.F.; Stablein, J.J.; Serbousek, D.; Fernandez-Caldas, E.** 1991. A three-year aerobiologic pollen survey of the Tampa Bay area, Florida. *Annals of Allergy*. 67(5):534-540.

*DESCRIPTORS*: weeds; pollen analysis; biology; pollen; production.

**FS 91005**

**Clark, A. III; Souter, R.A.; Schlaegel, B.E.** 1991. Stem profile equations for southern tree species. Res. Pap. SE-282. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station. 113 p.

**FS 91006**

**Conner, R.N.; Rudolph, D.C.** 1991. Forest habitat loss, fragmentation and red-cockaded woodpecker populations. *Wilson Bulletin*. 103(3):446-457.

*DESCRIPTORS*: cutting; foraging habitat; habitat fragmentation; Texas.

**FS 91007**

**Conner, R.N.; Snow, A.E.; O'Halloran, K.A.** 1991. Red-cockaded woodpecker use of seed-tree/shelterwood cuts in eastern Texas. *Wildlife Society Bulletin*. 19(1):67-73.

**FS 91008**

**Devall, M.S.; Grender, J.M.; Koretz, J.** 1991. Dendroecological analysis of a longleaf pine (*Pinus palustris*) forest in Mississippi. *Vegetatio*. 93(1):1-8.

*DESCRIPTORS*: dendrochronology; climate; simulation; dendroclimatology.

**FS 91009**

**Duryea, M.L.; Dougherty, P.M.** (Editors). 1991. Forest regeneration manual. Dordrecht, Netherlands; Kluwer Academic Publishers. 433 p.

*DESCRIPTORS*: artificial regeneration.

**FS 91010**

**Farrar, R.M., Jr.; Boyer, W.D.** 1991. Managing longleaf pine under the selection system — promises and problems. In: Coleman, S.S.; Neary, D.G. eds. Proceedings - 6th biennial southern silvicultural research conference; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:357-368.

**FS 91011**

**Gilliam, F.S.** 1991. Stand structure and longleaf pine regeneration of an old-growth longleaf pine forest under chronic fire exclusion. Supplement - Bulletin of the Ecological Society of America. 72(2):124.

*DESCRIPTORS*: long-term fire exclusion; xeric area; mesic area; stand structure; Sandhills vegetation; North Carolina.

**FS 91012**

**Gilliam, F.S.; Richter, D.D.** 1991. Transport of metal cations through a nutrient-poor forest ecosystem. In: Metals in spoils, waters, plants, and animals - proceedings of an international conference; 1990 April 30-May 3; Orlando, FL: Water, Air and Soil Pollution. 57-58:279-287.

*DESCRIPTORS*: ecosystems; groundwater; streams; precipitation; coastal plain soils; transport processes; cations; soil; water; hydrology; water pollution; soil chemistry; ion exchange capacity; leaching.

**FS 91013**

**Jones, E.P., Jr.; Bramlett, D.L.; Sluder, E.R.** 1991. Initial prospects for natural regeneration of pine in coastal South Carolina after hurricane Hugo. In: Coleman, S.S.; Neary, D.G. eds. Proceedings - 6th biennial southern silvicultural research conference; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:18-26.

**FS 91014**

**Kulhavy, D.L.; Ross, W.G.; Conner, R.N.; Mitchell, J.H.; Chrismer, G.M.** 1991. Silviculture and the red-cockaded woodpecker: where do we go from here? In: Coleman, S.S.; Neary, D.G. eds. Proceedings - 6th biennial southern silvicultural research conference; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:786-794.

**FS 91015**

**Langevin, S.A.; Platt, W.J.** 1991. Plant size and fuel characteristics influence survival of fire by juvenile longleaf pines. Supplement - Bulletin of the Ecological Society of America. 72(2):168.

*DESCRIPTORS*: juveniles; survival of fire; fuel load.

**FS 91016**

**Lantz, C.W.; Barnett, J.P.** 1991. Container seedlings may be the answer for that difficult site. R8-MB52. Atlanta, GA: U.S. Department of Agriculture, Forest Service, Southern Region. 2 p.

**FS 91017**

**Mushinsky, H.R.; Gibson, D.J.** 1991. The influence of fire periodicity on habitat structure. Department of Biology, University of South Florida, Tampa, FL: Chapman and Hall:237-259.

*DESCRIPTORS*: forest fires; fire ecology; synecology fires; reviews.

**FS 91018**

**Olson, M.S.; Platt, W.J.** 1991. Recovery of shrubs in longleaf pine forests and embedded seepage savannas following early and late growing season burns. Supplement - Bulletin of the Ecological Society of America. 72(2):209-210.

*DESCRIPTORS*: savannas; resprouts; Kisatchie National Forest.

**FS 91019**

**Platt, W.J.; Glitzenstein, J.S.; Streng, D.R.** 1991. Evaluating pyrogenicity and its effects on vegetation in longleaf pine savannas. Proceedings - 17th Tall Timbers Fire Ecology Conference; Tallahassee, FL: Tall Timbers Research Station. 17:143-162.

**FS 91020**

**Repasky, R.R.; Doerr, P.D.** 1991. Home range and substrate use by two family groups of red-cockaded woodpeckers in the North Carolina Sandhills. *Brimleyana*. 17:37-52.

*DESCRIPTORS*: birds; ecology.

**FS 91021**

**Roise, J.P.; Chung, J.; Lancia, R.** 1991. Red-cockaded woodpecker habitat management and longleaf pine straw production; an economic analysis. *Southern Journal of Applied Forestry*. 15(2):88-92.

*DESCRIPTORS*: pine straw.

**FS 91022**

**Runion, G.B.; Kelley, W.D.; Land, D.H.** 1991. Effects of triadimefon and thiram seed treatments on emergence of southern pines. *Seed Science and Technology*. 19(1):57-66.

*DESCRIPTORS*: fungicides; seed germination; seed treatment; thiram; phytotoxicity; triadimefon; germination; seeds; diseases; triadimefor.

**FS 91023**

**Salwasser, H.** 1991. New perspectives for sustaining diversity in U.S. National Forest ecosystems. *Conservation Biology*. 5(4):567-569.

*DESCRIPTORS*: environmental quality; soil; water; air; biological diversity; ecological process; resource; land.

## FS 91024

**Shaw, D.J.; Meldahl, R.S.; Kush, J.S.; Quicke, H.E.; Farrar, R.M., Jr.** 1991. Pole availability from naturally regenerated longleaf pine stands: preliminary data. In: Coleman, S.S.; Neary, D.G. eds. Proceedings - 6th biennial southern silvicultural research conference; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:260-264.

## FS 91025

**Somers, G.L.; Farrar, R.M., Jr.** 1991. Biomathematical growth equations for natural longleaf pine stands. *Forest Science*. 37(1):227-244.

*DESCRIPTORS*: increment; basal area; growth models; simulation; stand characteristics; mortality.

## FS 91026

**Streng, D.R.; Glitzenstein, J.S.; Platt, W.J.** 1991. Results of a long-term experiment: the effects of season and frequency of burning on ground-cover vegetation in longleaf pine savannas in north Florida. *Supplement - Bulletin of the Ecological Society of America*. 72(2):260-261.

*DESCRIPTORS*: ground-cover; growing season fire; dormant season fire; biomass; fire-tolerant.

## FS 91027

**Tracey, W.D.; Kulhavy, D.L.; Ross, W.G.** 1991. Land and resource management on typic quartzsammets. In: Coleman, S.S.; Neary, D.G. eds. Proceedings - 6th biennial southern silvicultural research conference; 1990 October 30-November 1; Memphis, TN: Gen. Tech. Rep. SE-70; Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station:475-484.

## FS 91028

**Walker, L.C.** 1991. *The Southern Forest: A Chronicle*. Austin, TX: University of Texas Press. 322 p.

## FS 91029

**Wyant, J.G.; Alig, R.J.; Bechtold, W.A.** 1991. Physiographic position, disturbance and species composition in North Carolina Coastal Plain forests. *Forest Ecology and Management*. 41:1-19.

## FS 92001

**Bailey, M.A.** 1992. Fire & our natural heritage: rare plants, animals, and natural communities. *Alabama's Treasured Forests*. 11(1):28-30.

## FS 92002

**Baker, W.L.** 1992. Effects of settlement and fire suppression on landscape structure. *Ecology*. 73(5):1879-1887.  
*DESCRIPTORS*: landscape; fire suppression; historical changes; GIS; prescribed burning.

## FS 92003

**Barnett, J.P.** 1992. The south's longleaf pine: it can rise again. *Forests and People* 42(4): 14-17.

## FS 92004

**Beltz, R.C.; Cost, N.D.; Kingsley, N.P.; Peters, J.R.** 1992. Timber volume distribution maps for the eastern United States. Gen. Tech. Rep. WO-60., Washington, D.C.:

U.S. Department of Agriculture, Forest Service, Washington, DC. 59 p.

## FS 92005

**Binkley, D.; Richter, D.; David, M.B.; Caldwell, B.** 1992. Soil chemistry in a loblolly/longleaf pine forest with interval burning. *Ecological Applications*. 2(2):157-164.

*DESCRIPTORS*: acidity; cations; pH; prescribed fire.

## FS 92006

**Dobrowski, J.P.; Blackburn, W.H.; Pearson, H.A.** 1992. Changes to infiltration and interrill erosion from long-term prescribed burning in Louisiana. *Water Resources Bulletin*. 28(2):287-298.

*DESCRIPTORS*: soil water movement; infiltration; burning; soil types (textural); erosion; interrill erosion.

## FS 92007

**Doggett, C.A.; Smith, T.** 1992. Pales weevil: a serious threat to longleaf pine production. *Tree Planters' Notes*. 43(3):87-88.

## FS 92008

**Hedrick, L.** 1992. Tree 249-3. Alabama's Treasured Forests. 11(2):18-21.

*DESCRIPTORS*: longleaf pine; old-growth; red-cockaded woodpecker; history.

## FS 92009

**Jones, J.P.; Pantone, D.J.; Barnett, J.P.; Brisette, J.C.** 1992. The relationship between fungal population development and root damage of cold-stored longleaf pine seedlings. Bull. No. 832. Baton Rouge, LA: Louisiana Agricultural Experiment Station. 23 p.

*DESCRIPTORS*: control; benomyl; metalaxyl; planting stock; diseases; storage; fungal diseases; fungicides.

## FS 92010

**Kessler, W.B.; Salwasser, H.; Cartwright, C.W., Jr.; Caplan, J.A.** 1992. New perspectives for sustainable natural resources management. *Ecological Applications*. 2(3):221-225.

*DESCRIPTORS*: national forest management; public land; resource.

## FS 92011

**Loeb, S.C.; Pepper, W.D.; Doyle, A.T.** 1992. Habitat characteristics of active and abandoned red-cockaded woodpecker colonies. *Southern Journal of Applied Forestry* 16(3):120-125.

## FS 92012

**Muse, H.D.; Hatchell, G.E.** 1992. A preliminary identification of morphological indicators of field performance in bare-root nursery stock. Res. Pap. SE-283. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station.

*DESCRIPTORS*: early field performance; seedlings.

## FS 92013

**Nelson, C.D.; Linghai, Z.; Hamaker, J.M.** 1992. Propagation of loblolly, slash, and longleaf pine from needle fascicles. *Tree Planters' Notes*. 43(3):67-72.

## FS 92014

- Nepal, S.K.; Somers, G.L.** 1992. A generalized approach to stand table projection. *Forest Science*. 38(1):120-133.  
*DESCRIPTORS*: diameter; equations; increment; stand tables.

## FS 92015

- Outcalt, K.W.** 1992. Factors affecting wiregrass (*Aristida stricta* Michx.) cover on uncut and site prepared sandhill areas in central Florida. *Ecological Engineering*. 1:245-251.  
*DESCRIPTORS*: reforestation.

## FS 92016

- Quicke, H.E.; Meldahl, R.S.** 1992. Predicting pole classes for longleaf pine based on diameter breast height. *Southern Journal of Applied Forestry*. 16(2):79-82.  
*DESCRIPTORS*: height; stump height; poles.

## FS 92017

- Robbins, L.E.; Myers, R.L.** 1992. Seasonal effects of prescribed burning in Florida: a review. *Tall Timbers Research Station Misc. Pub. No.8*.

## FS 92018

- Skroch, W.A.; Powell, M.A.; Bilderback, T.E.; Henry, P.H.** 1992. Mulches: durability, aesthetic value, weed control, and temperature. *Journal of Environmental Horticulture*. 10(1):43-45.  
*DESCRIPTORS*: control; physical control; mulching; ecology; soil temperature; weeds.

## FS 92019

- Smith, W.R.; Farrar, R.M., Jr.; Murphy, P.A.; Yeiser, J.L.; Meldahl, R.S.; Kush, J.S.** 1992. Crown and basal area relationships of open-grown southern pines for modeling competition and growth. *Canadian Journal of Forest Research*. 22(3):341-347.  
*DESCRIPTORS*: increment; basal area; growth models; diameter; plant competition; stand characteristics.

## FS 92020

- Wagner, D.B.; Nance, W.L.; Nelson, C.D.; Li, T.; Patel, R.N.; Govindaraju, D.R.** 1992. Taxonomic patterns and inheritance of chloroplast DNA variation in a survey of *Pinus echinata*, *Pinus elliottii*, *Pinus palustris*, and *Pinus taeda*. *Canadian Journal of Forest Research*. 22(5):683-689.  
*DESCRIPTORS*: genetics; molecular genetics; chloroplast genetics; biotechnology; restriction fragment length polymorphism; genetic resources.

## FS 92021

- Waldrop, T.A.; White, D.L.; Jones, S.M.** 1992. Fire regimes for pine-grassland communities in the southeastern United States. *Forest Ecology and Management* 47: 195-210.

## FS 92022

- Walkinshaw, C.H.; Barnett, J.P.** 1992. Fusiform rust in longleaf pines. *Forest Farmer* 52(1): 10-13.

## FS 92023

- Watts, W.A.; Hansen, B.C.S.; Grimm, E.C.** 1992. Camel Lake: a 40,000-year record of vegetational and forest history from north Florida. *Ecology*. 73(3):1056-1066.

## FS 93001

- Barnard, E.L.; Cordell, C.E.; Gilly, S.P.; Kais, A.G.** 1993. Comparative performance of sand and longleaf pines on a *Phytophthora cinnamomi*-infested sandhill in west Florida. *Southern Journal of Applied Forestry*. 17(2):90-95.  
*DESCRIPTORS*: sandhill; susceptibility; disease; infection; mortality.

## FS 93002

- Barnett, J.P.; Jones, J.P.** 1993. Response of longleaf pine to storage conditions and pregermination treatments. *Southern Journal of Applied Forestry*. 17(4): 174-179.  
*DESCRIPTORS*: regeneration; seed storage; stratification; moisture content; seed quality.

## FS 93003

- Barnett, J.P.; Pesacreto, T.C.** 1993. Handling longleaf pine seeds for optimal nursery performance. *Southern Journal of Applied Forestry*. 17(4):180-187.  
*DESCRIPTORS*: regeneration; artificial means; seed quality.

## FS 93004

- Boyer, W.D.** 1993. Long-term development of regeneration under longleaf pine seedtree and shelterwood stands. *Southern Journal of Applied Forestry* 17(1):10-15.

## FS 93005

- Boyer, W.D.** 1993. Season of burn and hardwood development in young longleaf pine stands. In: Brissette, J.C., ed. *Proceedings - 7th biennial southern silvicultural research conference; 1992 November 17-19; Mobile, AL*. Gen. Tech. Rep. SO-93. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station:511-515.

## FS 93006

- Boyles-Sprenkel, C.** 1993. Restoring a "grass-roots" forest. *American Forests*. 99(5-6):43-45, 60, 61.  
*DESCRIPTORS*: wiregrass; sandhill pine; Apalachicola Bluffs; ravine pressure.

## FS 93007

- Brockway, D.G.; Outcalt, K.W.** 1993. Restoration of longleaf pine/wiregrass ecosystem. Supplement - Bulletin of the Ecological Society of America. 14(2):175-176.  
*DESCRIPTORS*: forb cover; wiregrass; ecosystem; species diversity; species richness; species evenness; hexaxinone.

## FS 93008

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