

W. Dale Greene

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Professional Expertise

Forest operations and timber harvesting.

Education

Ph.D. 1986. Auburn University.
M.S. 1983. Virginia Polytechnic Institute & State University.
B.S. 1981. Louisiana State University.

Experience

Faculty Member, Warnell School of Forest Resources, University of Georgia, Athens. Research and teaching of timber harvesting and forest operations topics.

Visiting Scientist, Harvesting Research Project, Forest Science Laboratory, Westvaco Corporation, Summerville, SC. (9/92-3/93) Investigated ways to improve the wood flow and reduce the cost of wood delivered to Westvaco mills in South Carolina, USA.

Activities and Memberships

Georgia Forestry BMP Revision Task Force, Timber Harvesting subcommittee.
American Pulpwood Association, Harvesting Task Force.
Georgia Forestry Association, Treasurer since 1993, Director since 1992,
Chairman of Logging Operations Committee, 1989-1992.
Council on Forest Engineering, National Chairman, 1993, Southern Chairman, 1990.
Georgia Registered Forester #1975.

Refereed Publications

Halleux, O.R.M., W.D. Greene, and H.J.H. Whiffen. (in press). Setting Analyst: An operational harvest planning tool for timber sales on non-industrial forestland. International Journal of Forest Engineering.

- Greene, W.D., B.D. Jackson, and J.D. Culpepper. 2001. Georgia's logging businesses, 1987-1997. *Forest Products Journal* 51(1): 25-28.
- Mooney, S.T., K.D. Boston, and W.D. Greene. 2000. Production and costs of the Chambers Deliminator in first thinning of pine plantations. *Forest Products Journal* 50(4): 81-84.
- Greene, W.D., B.D. Jackson, and D.C. Woodruff. 1998. Characteristics of logging contractors and their employees in Georgia. *Forest Products Journal* 48(1): 47-53.
- Greene, W.D., T.G. Harris, Jr., C.E. DeForest, and J. Wang. 1997. Harvesting cost implications of changes in the size of timber sales in Georgia. *Southern Journal of Applied Forestry* 21(4): 193-198.
- Greene, W.D., B.D. Jackson, L. Shackleford, R.L. Izlar, and W. Dover. 1996. Safety of log transportation after regulation and training in the State of Georgia, USA. *Journal of Forest Engineering* 7(3): 25-31.
- Greene, W.D. and J.S. Carruth. 1994. Log separation economics on in-woods chipping operations. *Forest Products Journal* 44(10): 68-72.
- Jackson, B.D., W.D. Greene, and M.L. Baxter. 1993. Local regulation of timber harvesting and trucking in Georgia. *Southern Journal of Applied Forestry* 17(4): 200-206.
- Carruth, J.S. and W.D. Greene. 1993. Potential for in-woods chipping on Southern Woodlands plantations 1993-2002. Restricted Research Report No. 146, Forest Science Laboratory, Westvaco Corporation, Summerville, SC.
- Greene, W.D. and J.S. Carruth. 1993. Effect of log separation on in-woods chipping operations. Restricted Research Report No. 141, Forest Science Laboratory, Westvaco Corporation, Summerville, SC.
- Lewis, K.L. and W.D. Greene. 1993. Harvest felling of residual stems to reduce site preparation costs. *Southern Journal of Applied Forestry* 17(1): 39-43.
- Player, A.L. and W.D. Greene. 1992. Potential for mechanized harvesting systems in the Republic of South Africa. *South African Forestry Journal* 162: 9-19.
- Miller, C.F. and W.D. Greene. 1992. Delimiting southern pines: gate versus the CTR Model 314 De-Limber. *Forest Products Journal* 42(6): 11-16.
- Greene, W.D. and J.F. McNeel. 1991. Productivity and cost of sawhead feller-bunchers in the South. *Forest Products Journal*. 41(3): 21-26.

- Borders, B.E., W.D. Greene, and M.L. Clutter. 1991. Variable bedding, planting, harvesting and transportation costs impact optimal economic management regimes. *Southern Journal of Applied Forestry* 15(1): 34-39.
- Greene, W.D. 1991. Cost estimates for saw felling heads in the South. *Forest Products Journal* 41(2): 21-26.
- Jackson, B.D., W.D. Greene, and A.L. Schilling. 1990. Productivity of a tree-length forwarder for logging on wet sites. *Journal of Forest Engineering* 1(2): 9-13.
- Cubbage, F.W. and W.D. Greene. 1989. Conventional and biomass harvesting costs by forest tract size. *Biomass* 20(1989): 219-228.
- Faust, T.D. and W.D. Greene. 1989. Effects of felling head type on tensile strength of southern pine dimension lumber. *Forest Products Journal* 39(11/12): 82-84.
- Cubbage, F.W., W.D. Greene, and J.P. Lyon. 1989. Tree size and species, volume, and tract size: effects on southern harvesting costs. *Southern Journal of Applied Forestry* 13(3): 145-152.
- Greene, W.D. and J.F. McNeel. 1989. Potential costs of shear damage in a southern pine chip-n-saw mill. *Forest Products Journal* 39(5): 12-18.
- Greene, W.D. and B.J. Stokes. 1988. Performance of small grapple skidders in plantation thinning applications. *Southern Journal of Applied Forestry* 12(4): 243-246.
- Greene, W.D., F.W. Cubbage, and J.F. McNeel. 1988. Characteristics of independent loggers in Georgia. *Forest Products Journal* 38(7/8): 51-56.
- Reisinger, T.W., W.D. Greene, and J.F. McNeel. 1987. Microcomputer-based software for harvesting system analysis. *Southern Journal of Applied Forestry* 12(1): 37-41.
- Greene, W.D. and J.F. McNeel. 1987. Productivity, costs, and levels of butt damage with a Bell Model T feller-buncher. *Forest Products Journal* 37(11/12): 70-74.
- Greene, W.D., J.L. Fridley, and B.L. Lanford. 1987. Variability between operators in interactive simulations of feller-buncher operations. *Transactions of the American Society of Agricultural Engineers* 30(4): 918-921, 931.
- Greene, W.D., B.L. Lanford, and E.F. Mykytka. 1987. Stand and operating effects on feller-buncher productivity in second thinnings. *Forest Products Journal* 37(3): 27-34.

- Greene, W.D., B.L. Lanford, and J.N. Hool. 1987. Potential product volumes from second thinnings of southern pine plantations. *Forest Products Journal* 37(5): 8-12.
- Greene, W.D., B.L. Lanford, and R.A. Tufts. 1987. Evaluation of harvesting systems for the second thinning of pine plantations. *Forest Products Journal* 37(6): 9-14.
- Reisinger, T.W., W.D. Greene, J.F. McNeel, and T.M. Cooney. 1986. Microcomputer programs to analyze timber harvesting. *Journal of Forestry* 84(10): 17-20.
- Greene, W.D. and W.B. Stuart. 1985. Skidder and tire size effects on soil compaction. *Southern Journal of Applied Forestry* 9(3): 154-157.
- Greene, W.D. and B.L. Lanford. 1985. A grapple processor for plantation thinning. *Forest Products Journal* 35(3): 60-64.

Funding from External Sources

- Wood Supply Research Institute. \$140,524. Causes and costs of unused wood production capacity. W.D. Greene, J.H. Mayo, and K.D. Boston. December 1999.
- USDA Forest Service, Southern Research Station. \$20,500. Value recovery for cut-to-length harvesting systems in the southeastern USA. K.D. Boston and W.D. Greene. August 1999. .
- USDA Forest Service, Southern Research Station. \$32,000. Computer-aided planning of ground-based timber harvesting operations. August 1999.
- USDA Forest Service, Southern Research Station. \$15,000. Interactive simulation enhancements for modeling operational forestry problems. September 1997.
- USDA Forest Service, Southern Research Station. \$15,000. Mechanical processing of southern species: performance, utilization, and aesthetics. July 1997.
- USDA Forest Service, Southern Research Station. \$15,000. Modeling stand, harvest, and equipment interactions caused by forest harvesting prescriptions. September 1995.
- Union Camp Corporation. \$5,000. Demographic factors associated with Georgia's logging labor force. November 1995.
- Southern Forest Assessment Consortium. \$12,000. Effects of sale volumes and logging systems on wood production economics. July 1994.

USDA Forest Service. \$10,000. Improving productivity, quality, and operation of delimiting and bucking in the southern USA. April 1991. (renewal)

Tennessee Valley Authority. \$6,446. Field handbook of local timber harvesting regulations in Georgia. January 1991.

Logging Safety Foundation. \$2,500. Using motor vehicle accident data to improve log truck driver training. January 1991.

USDA Forest Service. \$6,300. Improving productivity, quality, and operation of delimiting and bucking in the southern USA. August 1990.

Georgia Forestry Commission. \$6,430. Reducing site preparation costs with intensive harvest felling. July 1990. (renewal)

Georgia Forestry Commission. \$7,890. Reducing site preparation costs with intensive harvest felling. July 1989.

Procter and Gamble Cellulose Corp. \$8,500. Felling unmerchantable stems during harvesting to reduce site preparation costs. March 1989.

USDA Forest Service. Southern Forest Experiment Station. \$10,000. Saw-type felling heads for southern timber harvesting. April 1988.

USDA Forest Service. Southern Forest Experiment Station. \$4,000. Productivity of mechanical site preparation operations in the South. June 1988.

Georgia Forestry Commission. \$15,817. Productivity of mechanical site preparation operations. June 1988. (renewal)

Buckeye Cellulose Company. \$5,060. Economic analysis of shear versus saw felling heads. January 1988.

Georgia Forestry Commission. \$15,231. Productivity of mechanical site preparation operations. June 1988.

International Paper Company. \$1,200. Use of a high-flotation forwarder for wetland logging. April 1987.

Georgia Forestry Commission. \$12,373. Subsoiling for the establishment of loblolly pine in the Georgia Piedmont. October 1986.

Southeastern Regional Biomass Energy Program, TVA/DOE. \$26,624. Equipment and systems for economical harvesting of small forest tracts. October 1986.

USDA Forest Service. Southern Forest Experiment Station. \$6,000. Thinning plantations with small skidding systems. August 1986.

Resident Instruction

FORS 57207720 Forest Harvesting and Roads.

FORS 3000, Forest Field Measurements and Orientation (Portion on basic forest surveying and mapping including GPS).

FORS 4730, Senior Project in Forest Resources.

FORS 3950, Forest Operations Study Tour.

Continuing Education Shortcourses

Logging Cost Analysis

Harvest Planning & Layout

Thinning Methods and Operations

Cost Analysis for Logging Contractors

USDA Forest Service Sale Layout and Harvesting Institute (SALHI)

American Pulpwood Association Pulpwood Procurement Shortcourse

Georgia Master Timber Harvester Program