

Last revised: July 2014

Volume Equations

(264 entries)

1. Belyea, H. C. and O. M. Porter. 1923. Foresters' Tables for New York State. New York State College of Forestry at Syracuse University, Bulletin No. 14. 83 pages.
2. Munns, E. N. and R. M. Brown. 1925. Volume Tables for the Important Timber Trees of the United States: Part II – Eastern Conifers. USDA Forest Service. 146 pages.
3. Munns, E. N. and R. M. Brown. 1925. Volume Tables for the Important Timber Trees of the United States: Part III – Eastern Hardwoods. USDA Forest Service. 104 pages.
4. Anon. 1926. Tables for Determining Contents of Standing Timber in Minnesota, Michigan, and Wisconsin. University of Minnesota Agricultural Experiment Station, Technical Bulletin 57. 99 pages.
5. Anon. 1929. Volume, Yield, and Stand Tables for Second-Growth Southern Pines. USDA Miscellaneous Publication 50. 202 pages.
6. Brown, R. M. 1929. Tables for Determining the Volume of Black Spruce. University of Minnesota Agricultural Experiment Station, Technical Bulletin 57. 16 pages.
7. Anon. 1930. Form-class Volume Tables for Balsam Fir, Jack Pine, Lodgepole Pine, Red Pine, White Pine, and Black, White, and Red Spruce. Department of the Interior, Canada Forest Service. 200 pages.
8. Belyea, H. C. 1933. Foresters' Tables for New York State. New York State College of Forestry at Syracuse University, Bulletin No. 14. 217 pages.
9. Behre, C.E. 1935. Factors Involved in the Application of Form-Class Volume Tables. *Journal of Agricultural Research* 51(8):669-713.
10. Lemieux, F.J. 1936. Log Rules, Taper Tables, and Volume Tables for Use in the South. *Journal of Forestry* 34:970-974.
11. Chapman, R.A. 1938. Errors Involved in Determining Tree Volumes by the Planimeter Method. *Journal of Forestry* 36(1):50-52.
12. Gray, H.R. 1943. Volume Measurement of Forest Crops. *Australian Forestry* 8:48-74.
13. Gray, H.R. 1944. Volume Measurement of Single Trees. *Australian Forestry* 8:44-61.
14. Meyer, W. H. and R. Kienholz. 1944. Volume tables for Connecticut Hardwoods. Yale University: School of Forestry Bulletin No. 54. 58 pages.

15. Stoate, T.N. 1945. The Use of a Volume Equation in Pine Stands. *Australian Forestry* 9:48-52.
16. Mesavage, C. 1947. Tables for Estimating Cubic-Foot Volume of Timber. US Forest Service, Southern Forest Experiment Station, Occasional Paper No. 111. 71 pages.
17. Olson, A. R., G. Chapman and H. W. Hicock. 1949. Connecticut Volume Tables for Plantation-Grown White Pine. Connecticut Agricultural Experiment Station, Bulletin 514. 23 pages.
18. Olson, A. R., H. W. Hicock, and H. A. McKusick. 1949. Connecticut Volume Tables for Plantation-Grown Red Pine. Connecticut Agricultural Experiment Station, Bulletin 529. 24 pages.
19. Banks, W.G. and F.E. Hampf. 1955. Estimating Upper-Stem and Limb-Wood Volume in Northeastern Hardwoods. US Forest Service, Northeastern Forest Experiment Station, Forest Research Notes No. 50, 2 pages.
20. Carl, C.M., J.C. Mawson, and H.E. Young. 1955. White Pine Topwood Volume Tables. University of Maine Forestry Department Technical Notes No. 36, 4 pages.
21. Gevorkiantz, S.R. and L.P. Olsen. 1955. Composite Volume Tables for Timber and their Application in the Lake States. USDA Technical Bulletin No. 1104, 51 pages.
22. Matusita, K. Hayash, C. et al. 1955. Some problems of sampling in the forest survey. The Institute of Statistical Mathematics 23pp.
23. Young, H E. 1955. Local Pulpwood Volume Tables. University of Maine Forestry Department Technical Notes No. 37, 5 pages.
24. Young, H. E. 1957. Additional volume tables for Maine. Maine Agricultural Experiment Station Miscellaneous Publication 627. 40 pages.
25. Gregory, R.A. 1960. Cubic-Foot Volume Tables for Paper Birch in Alaska. US Forest Service, Alaska Forest Research Center, Technical Notes, No. 49.
26. Morriss, D.J. 1960. Net Tree Measurement. *Journal of Forestry* 58(1):15-23.
27. Bryan, M.B. and J.P. McClure. 1962. Board-Foot and Cubic-Foot Volume Computing Equations for Southeastern Tree Species. US Forest Service, Southeastern Forest Experiment Station, Station Paper No. 145, 10 pages.
28. Gingrich, S.F. 1962. Adjusting Shortleaf Pine Volume Tables for Different Limits of Top Utilization. US Forest Service, Central States Forest Experiment Station, Technical Paper 190, 12 pages.

29. Bartoo, R.A. and R.J. Hutnik. June 1962. Board Foot Volume Tables for Timber Tree Species in Pennsylvania. The Pennsylvania State Forest School, Research Paper #30, 35 pages.
30. Arend, J.L. 1963. Cordwood Heights of Mixed Oak Growing on Grayling and Rubicon Soils. US Forest Service, Lake States Forest Experiment Station, Research Note LS-12, 2 pages.
31. Beck, D.E. 1963. Cubic-Foot Volume Tables for Yellow-Poplar in the Southern Appalachians. US Forest Service, Southeastern Forest Experiment Station, Research Note SE-16, 4 pages.
32. Haack, P.M. 1963. Aerial Photo Volume Tables for Interior Alaska Tree Species. US Forest Service, Northern Forest Experiment Station, Research Note NOR-3, 8 pages.
33. Haack, Jr., P.M. 1963. Volume Tables for Trees of Interior Alaska. US Forest Service, Northern Forest Experiment Station, Research Note NOR-5, 11 pages.
34. Beck, D.E. 1964. International ¼-inch Board-Foot Volumes and Board-Foot/Cubic-Foot Ratios for Southern Appalachian Yellow-Poplar. US Forest Service, Southeastern Forest Experiment Station, Research Note SE-27, 4 pages.
35. Honer, T.G. 1964. The Use of Height and Squared Diameter Ratios for the Estimation of Merchantable Cubic Foot Volume. *Forestry Chronicle* 40:324-331.
36. O'Regan, W.G. 1964. Limits for the Sum of Predictions in Regression Analysis. *Forest Science* 10(3):300-301.
37. Heger, L. 1965. A Trial of Hohenadl's Method of Stem Form and Stem Volume Estimation. *Forestry Chronicle* 41:466-475.
38. Honer, T.G. 1965. A New Total Cubic Foot Volume Function. *Forestry Chronicle* 41:476-493.
39. Curtis, F.H. 1966. Tree Weight Equations—Their Development and Use in Forest Management Planning. Division of Forest Mensuration, Proceedings of the Society of American Foresters Meeting, October 24-28, Detroit, Michigan, pages 189-191.
40. Gerrard, D.J. 1966. The construction of standard tree volume tables by weighted multiple regression. Faculty of Forestry Technical Report No. 6, Department of Lands and Forests Research Report 61. Ontario: University of Toronto.
41. Bruce, D., R.O. Curtis, and C. Vancoevering. 1967. Development of a System of Taper and Volume Tables for Red Alder. *Forest Science* 14(3):339-350.

42. Smalley, G.W. and D.R. Bower. 1968. Volume Tables and Point-Sampling Factors for Loblolly Pine in Plantations on Abandoned Fields in Tennessee, Alabama, and Georgia Highlands. US Forest Service, Southern Forest Experiment Station, Research Paper SO-32, 6 pages.
43. Moser, Jr., J.W. and T.W. Beers. 1969. Parameter Estimation in Nonlinear Volume Equations. *Journal of Forestry* 67:878-879.
44. Bailey, R.L. and J.L. Clutter. 1970. Volume Tables for Old-Field Loblolly Pine Plantations in the Georgia Piedmont. Georgia Forest Research Council, Report No. 22—Series 2, 4 pages.
45. Bruce, D. 1970. Estimating Volume of Douglas-Fir Butt Logs. US Forest Service, Pacific Northwest Forest and Range Experiment Station, Research Note PNW-117, 5 pages.
46. Heinrichs, J.F. and Lassen, L. E. 1970. Improved technique for determining the volume of irregularly shaped wood blocks. *Forest Products Journal* 20(4):24
47. Cole, D.M. 1971. A Cubic-Foot Stand Volume Equation for Lodgepole Pine in Montana and Idaho. US Forest Service, Intermountain Forest and Range Experiment Station, Research Note INT-150, 8 pages.
48. Farr, W.A. and V.J. LaBau. 1971. Volume Tables and Equations for Old-Growth Western Redcedar and Alaska-Cedar in Southeast Alaska. US Forest Service, Pacific Northwest Forest and Range Experiment Station, Research Note PNW-167, 6 pages.
49. Goulding, C.J. 1971. Reducing the error in the calculation of the volume of sectioned logs. *Canadian Journal of Forest Research* 1: 267-268.
50. Reukema, D.L. 1971. Considerations and problems in determining volume growth of individual trees. *Mitteilungen der Forstlichen Bundes-Versuchsanstalt Wien*, pp11-32.
51. Schmid-Haas, P., P.R. Roiko-Jokela, P. Mingard, and M. Zobeiry. 1971. The Optimal Determination of the Volume of Standing Trees. *Mitteilungen der Forstl. Bundesversuchsanstalt Wien* 91:33-54.
52. Smalley, G.W. and D.E. Beck. 1971. Cubic-Foot Volume Table and Point-Sampling Factors for White Pine Plantations in the Southern Appalachians. US Forest Service, Southern Forest Experiment Station, Research Note SO-118, 2 pages.
53. Wensel, L.C. 1971. Tree Volume Equations and Tables for Dendrometer Measurements. *Hilgardia* 41(4):55-76.
54. Hazard, J.W. and J.M. Berger. 1972. Volume Tables vs. Dendrometers for Forest Surveys. *Journal of Forestry*, April, pages 216-219.

55. Myers, C.A. 1972. Volume, Taper, and Related Tables for Southwestern Ponderosa Pine (Revised). US Forest Survey, Rocky Mountain Forest and Range Experiment Station, Research Paper RM-2, 25 pages.
56. Sprent, P. 1972. The Mathematics of Size and Shape. *Biometrics* 28:23-37.
57. Barnard, J.E., C.A. Bickford, and C.E. Mayer. 1973. Forest Survey Cubic-Foot Volume Equations. US Forest Service, Northeastern Forest Experiment Station, Research Note NE-166, 2 pages.
58. Wiant, Jr., H.V., D.M. Holland, and W.R. Maxey. 1973. Height Tallies Fewer, Using Tarif System for Sawtimber Estimates. *Forest Industries*, September, 1 page.
59. Bruce, D. and D.J. DeMars. 1974. Volume Equations for Second-Growth Douglas-Fir. US Forest Service, Pacific Northwest Forest and Range Experiment Station, Research Note PNW-239, 5 pages.
60. Rennie, J.C. and Boehmer, W. D. 1975. A comparison of tree volume estimation methods for West Tennessee hardwoods. *Tennessee Farm and Home Science*.
61. Clark III, A. 1976. Sawmill Residue Yields from Yellow-Poplar Saw Logs. *Forest Products Journal* 26(1):23-27.
62. Farr, W.A. and V.J. LaBau. 1976. Cubic-Foot Volume Tables and Equations for Young-Growth Western Hemlock and Sitka Spruce in Southeast Alaska. US Forest Service, Pacific Northwest Forest and Range Experiment Station, Research Note PNW-269, 4 pages.
63. Max, T.A. and H.E. Burkhart. 1976. Segmented Polynomial Regression Applied to Taper Equations. *Forest Science* 22(3):283-289.
64. Burkhart, H.E. 1977. Cubic-foot Volume of Loblolly Pine to Any Merchantable Top Limit. *Southern Journal of Applied Forestry* 1(2):7-9.
65. Donnelly, D.M. and Barger, R.L. 1977. Weight scaling for southwestern Ponderosa pine. U.S. Forest Service, Rocky Mountain Forest and Range Experiment Station, Research Paper RM-181, 9 pages.
- 66.
67. Nyland, R.D. 1977. Cubic Volume Tables for Second-Growth Northern Hardwoods in New York Including English and Metric Units. State University of New York, College of Environmental Science and Forestry, Applied Forestry Research Institute Research Report No. 35, 30 pages.
68. Queen, W.R. and L.V. Pienaar. 1977. Green and Dry Stem Weight Equations for Site-Prepared Slash Pine Plantations in the Coastal Plain of Georgia and North Florida. University

- of Georgia, School of Forest Resources, Plantation Management Research Co-Operative, Research Paper 1, 58 pages.
69. Wensel, L.C. 1977. Volume Tables for Young-Growth Conifers in the Northern Regions of California. University of California, Division of Agricultural Sciences, Bulletin 1883, 43 pages.
70. Wiant, Jr., H.V. and F. Castaneda. 1977. Mesavage and Girard's Volume Tables Formulated. USDI Bureau of Land Management, Resource Inventory Notes, BLM 4, 3 pages.
71. Myers, C. C. 1978. Sampling tree weight. Forest Inventory Conference 6pp.
72. Hann, D.W. and B.B. Bare. 1978. Comprehensive Tree Volume Equations for Major Species of New Mexico and Arizona: I. Results and Methodology. US Forest Service, Intermountain Forest and Range Experiment Station, Research Paper INT-209, 43 pages.
73. Hallock, H., P. Steele, and R. Selin. 1979. Comparing Lumber Yields from Board-Foot and Cubically Scaled Logs. US Forest Service, Forest Products Laboratory, Research Paper FPL-324, 16 pages.
74. Meeuwig, R.O. 1979. Growth Characteristics of Pinyon-Juniper Stands in the Western Great Basin. US Forest Service, Intermountain Forest and Range Experiment Station, Research Paper INT-238, 21 pages.
75. Scott, C.T. 1979. Northeastern Forest Survey Board-Foot Volume Equations. US Forest Service, Northeastern Forest Experiment Station NE-271, 3 pages.
76. Wiant, Jr., H.V. and W.R. Maxey. 1979. Board-Foot Factors for Point Sampling. *Journal of Forestry*, January, page 29.
77. Brister, G.H., J.L. Clutter, and T.M. Skinner. 1980. Tree Volume and Taper Functions for Site-Prepared Plantations of Slash Pine. *Southern Journal of Applied Forestry*, pages 139-142.
78. Clutter, J.L. 1980. Development of Taper Functions from Variable-Top Merchantable Volume Equations. *Forest Science* 26(1):117-120.
79. Cao, Q.V. and H.E. Burkhart. 1980. Cubic-Foot Volume of Loblolly Pine to Any Height Limit. *Southern Journal of Applied Forestry* 4(4):166-168.
80. Cao, Q.V., H.E. Burkhart, and T.A. Max. 1980. Evaluations of Two Methods for Cubic-Volume Prediction of Loblolly Pine to Any Merchantable Limit. *Forest Science* 26(1):71-80.
81. Hilt, D.E. 1980. Taper-Based System for Estimating Stem Volumes of Upland Oaks. US Forest Service, Northeastern Forest Experiment Station, Research Paper NE-458, 12 pages.

82. Bredenkamp, B.V. 1981. A Preliminary Volume Table for *Casuarina Equisetifolia*. *South African Forestry Journal* 118:83.
83. Edminster, C.B., H.T. Mowrer, and T.E. Hinds. Volume Tables and Point-Sampling Factors for Aspen in Colorado. US Forest Service, Rocky Mountain Forest and Range Experiment Station, Research Paper RM-232, 16 pages.
84. Farrar, Jr., R.M. 1981. Cubic-Foot Volume, Surface Area, and Merchantable Height Functions for Longleaf Pine Trees. US Forest Service, Southern Forest Experiment Station, Research Paper SO-166, 7 pages.
85. Saucier, J.R., D.R. Phillips, and J.G. Williams, Jr. 1981. Green Weight, Volume, Board-Foot, and Cord Tables for the Major Southern Pine Species. Georgia Forest Research Paper 19, 63 pages.
86. Schlaegel, B.E. 1981. Willow Oak Volume and Weight Tables for the Mississippi Delta. US Forest Service, Southern Forest Experiment Station, Research Paper SO-173, 14 pages.
87. Scott, C.T. 1981. Northeastern Forest Survey Revised Cubic-Foot Volume Equations. US Forest Service, Northeastern Forest Experiment Station, Research Note NE-304, 3 pages.
88. Van Deusen, P.C., A.D. Sullivan, and T.G. Matney. 1981. A Prediction System for Cubic Foot Volume of Loblolly Pine Applicable Through Much of Its Range. *Southern Journal of Applied Forestry* 5:186-189.
89. Bredenkamp, B.V. 1982. Volume Regression Equations for *Eucalyptus Grandis* on the Coastal Plain of Zululand. *South African Forestry Journal* 122:1-4.
90. Bruce, D. 1982. Butt log volume estimators. *Forest Science* 28(3):489-503.
91. Cochran, P. H. 1982. Estimating wood volumes for Douglas-fir and White Fir from outside bark measurements. *Forest Science* 28(1): 172-174.
92. Lohrey, R. E. 1982. Stem volume prediction and crown characteristics of thinned longleaf pine plantations.
93. Golden, M.S., S.A. Knowe, and C.L. Tuttle. 1982. Cubic-Foot Volume for Yellow-Poplar in the Hilly Coastal Plain of Alabama. *Southern Journal of Applied Forestry* 6:167-171.
94. Matney, T.G. and A.D. Sullivan. 1982. Variable Top Volume and Height Predictors for Slash Pine Trees. *Forest Science* 28(2):274-282.
95. Raile, G.K. 1982. Estimating Stump Volume. US Forest Service, North Central Forest Experiment Station, Research Paper NC-224, 4 pages.

96. Van Deusen, P.C., T.G. Matney, and A.D. Sullivan. 1982. A Compatible System for Predicting the Volume and Diameter of Sweetgum Trees to Any Height. *Southern Journal of Applied Forestry*, pages 159-163.
97. Lohrey, R. E. 1983. Stem Volume Prediction and Crown Characteristics of Thinned Longleaf Pine Plantations. Proceedings of the Second Biennial Southern Silvicultural Research Conference, USDA Forest Service General Technical Report SE-24.
98. McClure, J.P., H.T. Schreuder, and R.L. Wilson. 1983. A Comparison of Several Volume Table Equations for Loblolly Pine and White Oak. US Forest Service, Southeastern Forest Experiment Station, Research Paper SE-240, 8 pages.
99. Sadiz, R.A. and V.G. Smith. 1983. Estimation of Individual Tree Volumes with Age and Diameter. *Canadian Journal of Forest Research*, 13:32-39.
100. Wensel, L.C. 1983. Volume and Taper Relationships for Redwood, Douglas-fir, and Other Conifers in California's North Coast. University of California, Division of Agricultural Sciences, Bulletin 1907, 39 pages.
101. Bredenkamp, B.V. and N.C. Loveday. 1984. Volume Equations for Diameter Measurements in Millimeters. *South African Forestry Journal*, September, page 40.
102. Bruce, D. 1984. Volume Estimators for Sitka Spruce and Western Hemlock in Coastal Alaska. Inventorying Forest and Other Vegetation of the High Latitude and High Altitude Regions, Proceedings of the International Symposium, SAF Regional Technical Conference, 23-26 July, Fairbanks, Alaska, pages 96-102.
103. Chojnacky, D.C. 1984. Volume and Biomass For Curlleaf Cercocarpus in Nevada. US Forest Service, Intermountain Forest and Range Experiment Station, Research Paper INT-332, 8 pages.
104. Hahn, J.T. 1984. Tree Volume and Biomass Equations for the Lake States. US Forest Service, North Central Forest Experiment Station, Research Paper NC-250, 10 pages.
105. Knoebel, B.R., H.E. Burkhardt, and D.E. Beck. 1984. Stem Volume and Taper Functions for Yellow-Poplar in the Southern Appalachians. *Southern Journal of Applied Forestry* 8(4):185-188.
106. Martin, A.J. 1984. Testing Volume Equation Accuracy with Water Displacement Techniques. *Forest Science* 30(1):41-50.
107. Pillsbury, N. M. and Kirkley, M. L. 1984. Equations for Total, Wood, and Saw-Log volume for thirteen California Hardwoods. USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, Research Note PNW-414.
108. Reed, D.D. and E.J. Green. 1984. Compatible Stem Taper and Volume Ratio Equations.

Forest Science 30(4):977-990.

109. Born, J.D. and D.C. Chojnacky. 1985. Woodland Tree Volume Estimation: A Visual Segmentation Technique. US Forest Service, Intermountain Research Station, Research Paper INT-344, 16 pages.
110. Brickell, J. E. 1985. Stem analysis: a conventional approach to volume determination. Growth and yield and other mensuration tricks : regional technical conference/compilers:Dwane D. Van Hooser; Van Pelt, N.—Ogden, Utah: Intermountain Research Station, 1985.—(General technical report INT; 193).
111. Chapman, R.C., R.R. Clausnitzer, and V.C. Baldwin. 1985. Bole Oven Dry Weight Equations and Weight/Basal Area Tables for Northeastern Washington Conifers. Washington State University, College of Agriculture and Home Economics, Agriculture Research Bulletin XB 0948, 8 pages.
112. Chojnacky, D.C. 1985. Pinyon-Juniper Volume Equations for the Central Rocky Mountain States. US Forest Service, Intermountain Forest and Range Experiment Station, Research Paper INT-339, 27 pages.
113. Clark III, A., D.R. Phillips, and D.J. Frederick. 1985. Weight, Volume, and Physical Properties of Major Hardwood Species in the Gulf and Atlantic Coastal Plains. US Forest Service, Southeastern Forest Experiment Station, Research Paper SE-250, 66 pages.
114. Green, E.J. 1985. Board foot and residual volume equations for black and chestnut oaks in New Jersey. *Northern Journal of Applied Forestry* 2:53-55.
115. Green, E.J. and M.C. Vodak. 1985. An Equation for Predicting Tree Volumes Using the New Jersey Doyle Board-Foot Volume Table, Form Class 78. Rutgers, The State University of New Jersey, Cooperative Extension Service, TFS01, 2 pages.
116. Green, E.J. and M.C. Vodak. 1985. Equations for Predicting Board-Foot and Residual Volume for Black Oak and Chestnut Oak in New Jersey. Rutgers, The State University of New Jersey, Cooperative Extension Service, TFS10, 2 pages.
117. Green, E.J. and W.E. Strawderman. 1985. The Use of Bayes/Empirical Bayes Estimation in Individual Tree Volume Equation Development. *Forest Science* 31(4):975-990.
118. Hotvedt, J.E., Q.V. Cao, and B.R. Parresol. 1985. Tree-Volume and Stem-Profile Functions for Baldcypress. *Southern Journal of Applied Forestry* 9(10):227-232.
119. Newberry, J.D. and T.E. Burk. 1985. S_B Distribution-Based Models for Individual Tree Merchantable Volume-Total Volume Ratios. *Forest Science* 31(2):389-398.
120. Newberry, J.D. and T.E. Burk. 1985. An Integrated Approach to Individual Tree Volume

- Distribution and Stem Profile Modeling. *Canadian Journal of Forest Research* 15:555-560
121. Pienaar, L.V., B.D. Shiver, and J.W. Rheney. 1985. Revised Stem Volume and Weight Equations for Site-Prepared Slash Pine Plantations. University of Georgia, School of Forest Resources, Plantation Management Research Cooperative, Technical Report No. 1985-5, 21 pages.
 122. Popovich, S. 1985. Tree and Bole Standard Volume Tables for Yellow Birch (*Betula alleghaniensis*, Britton) and American Beech (*Fagus grandifolia*, Ehrh.) for the Great Lakes—St. Lawrence Forest Region, Quebec. Canadian Forestry Service, Laurentian Forest Research Centre, Information Report LAU-X-66E, 24 pages.
 123. Reed, D.D. and J.C. Byrne. 1985. A Simple, Variable Form Volume Estimation System. *Forestry Chronicle* 61:87-90.
 124. Walters, D.K., D.W. Hann, and M.A. Clyde. 1985. Equations and Tables Predicting Gross Total Stem Volumes in Cubic Feet for Six Major Conifers of Southwest Oregon. Oregon State University, College of Forestry, Forest Research Lab, Research Bulletin 50, 36 pages.
 125. Amateis, R.L. and H.W. Burkhart. 1986. Volume Equations for Loblolly Pine Trees in Cutover, Site-Prepared Plantations. Loblolly Pine Growth and Yield Research Cooperative, 9 pages.
 126. Byrne, J.C. and D.D. Reed. 1986. Complex Compatible Taper and Volume Estimation Systems for Red and Loblolly Pine. *Forest Science* 32(2):423-443.
 127. Clark III, A. 1986. Comparison of Regional Southern Hardwood Species Weight and Volume Equations. Proceedings of the 1986 Southern Forest Biomass Workshop, Knoxville, Tennessee, 16-19 June, pages 15-23.
 128. Clark III, A., J.R. Saucier, and W.H. McNab. 1986. Total-Tree Weight, Stem Weight, and Volume Tables for Hardwood Species in the Southeast. Georgia Forestry Commission, Forest Research Paper 60, 44 pages.
 129. Meng, C.H. and W.Y. Tsai. 1986. Selection of Weights for a Weighted Regression of Tree Volume. *Canadian Journal of Forest Research* 16:671-673.
 130. Walters, D.K. and D.W. Hann. 1986. Predicting Merchantable Volume in Cubic Feet to a Variable Top and in Scribner Board Feet to a Six-inch Top for Six Major Conifers of Southwest Oregon. Oregon State University, College of Forestry, Forest Research Lab, Research Bulletin No. 52, 107 pages.
 131. Amateis, R.L. and H.E. Burkhart. 1987. Tree Volume and Taper of Loblolly Pine Varies by Stand Origin. *Southern Journal of Applied Forestry* 11(4):185-189.

132. Amateis, R.L. and H.E. Burkhart. 1987. Cubic-Foot Volume Equations for Loblolly Pine Trees in Cutover, Site-Prepared Plantations. *Southern Journal of Applied Forestry* 11(4):190-192.
133. Bruce, D. 1987. Butt-Log Profile Equations. *Forest Science* 33(1):104-115.
134. Chojnacky, D.C. and C.K. Wraith. 1987. Estimating Singleleaf Pinyon and Utah Juniper Volumes for Several Utilization Standards. US Forest Service, Intermountain Research Station, Research Notes INT-369, 5 pages.
135. Hann, D.W., D.K. Walters, J.A. Scrivani. 1987. Incorporating Crown Ration into Prediction Equations for Douglas-fir Stem Volume. *Canadian Journal of Forest Research* 17:17-22.
136. Kassier, H.W. 1987. Revision of Tree Volume Regression Equations for Pines: 1987. PRETORIA, 8 pages.
137. Kelly, J.F. and R.C. Beltz. 1987. A Comparison of Tree Volume Estimation Models for Forest Inventory. US Forest Service, Southern Forest Experiment Station, Research Paper SO-233, 9 pages.
138. Lenhart, J.D., T.L. Hackett, C.J. Laman, T.J. Wiswell, and J.A. Blackard. 1987. Tree Content and Taper Functions for Loblolly and Slash Pine Trees Planted on Non-Old-Fields in East Texas. *Southern Journal of Applied Forestry* 11:147-151.
139. Loveday, N.C. and H.W. Kassier. 1987. Tree-Growth Modeling in the South African Public Forestry Sector. PRETORIA, 12 pages.
140. Mawson, J.C. and M.E. Connors. 1987. Girard Form Class Volume Equations. *Northern Journal of Applied Forestry* 4:58.
141. McClure, J.P., J. Anderson, and H.T. Schreuder. 1987. A Comparison of Regional and Site-Specific Volume Estimation Equations. US Forest Service, Southeastern Forest Experiment Station, Research Paper SE-264, 9 pages.
142. McClure, J.P. and R.L. Czaplewski. 1987. High Order Regression Models for Regional Volume Equations. 1986 Biomass Workshop, General Technical Report NE-GTR-117, pages 295-303.
143. McTague, J.P. and R.L. Bailey. 1987. Simultaneous Total and Merchantable Volume Equations and a Compatible Taper Function for Loblolly Pine. *Canadian Journal of Forest Research* 17:87-92.
144. Parresol, B.R., J.E. Hotvedt, and Q.V. Cao. 1987. A Volume and Taper Prediction

- System for Bald Cypress. *Canadian Journal of Forest Research* 17:250-259.
145. Shifley, S.R. 1987. A Generalized System of Models Forecasting Central States Tree Growth. US Forest Service, North Central Forest Experiment Station, Research Paper NC-279, 10 pages.
146. Sture, S. 1987. Precision of Volume- and Volume Increment Estimates. *Scandinavian Journal of Forest Research* 2:379-387.
147. Waddell, D.R., D.L. Weyermann, and M.B. Lambert. 1987. Estimating the Weight of Douglas-fir Tree Boles and Logs with an Iterative Computer Model. US Forest Service, Pacific Northwest Research Station, Research Paper PNW-RP-374, 20 pages.
148. Walters, D.K. and D.W. Hann. 1987. Predicting Merchantable Volume in Cubic Feet to a Variable Top and in Scribner Board Feet to a 6-inch Top for Six Major Conifers of Southwest Oregon. Oregon State University, College of Forestry, Forest Research Lab, Research Bulletin 52, 107 pages.
149. Biging, G. S. 1988. Estimating the accuracy of volume equations using taper equations of stem profile. *Canadian Journal of Forest Research* 18: 1002-1007.
150. Chojnacky, D.C. 1988. Woodland Volume Equations for Arizona Fort Apache and San Carlos Indian Reservations. US Forest Service, Intermountain Research Station, Research Notes INT-379, 7 pages.
151. Chojnacky, D.C. 1988. Juniper, Pinyon, Oak, and Mesquite Volume Equations for Arizona. US Forest Service, Intermountain Research Station, Research Paper INT-391, 11 pages.
152. McTague, J.P. and W.F. Stansfield. 1988. Total and Merchantable Volume Equations and Taper Functions for Southwestern Ponderosa Pine. *Western Journal of Applied Forestry* 3(4):123-125.
153. Titus, S.J. and D.J. Morgan. 1988. Theory and Methodology of Single Tree Volume Estimation. Canadian Forestry Service, Petawawa National Forestry Institute and Canadian Forest, Inventory Committee, Information Report PI-X-85, 8 pages.
154. Penman, J.T.D. 1988. Volume, Taper, and Bark Thickness in Seedlings and Cuttings from Mamaku Forest, New Zealand. *New Zealand Journal of Forestry Science* 18(3):311-317.
155. Biging, G.S. 1988. Estimating the accuracy of volume equations using taper equations of stem profile, *Canadian Journal of Forest Research*, 18:1002 – 1007.
156. Burk, T.E., R.P. Hans, and E.H. Wharton. 1989. Individual Tree Volume Equations for the Northeastern United States: Evaluation and New Form Quotient Board Foot Equations.

Northern Journal of Applied Forestry 6(1):27-31.

157. Czaplewski, R.L., A.S. Brown, and D.G. Guenther. 1989. Estimating Merchantable Tree Volume in Oregon and Washington Using Stem Profile Models. US Forest Service, Rocky Mountain Forest and Range Experiment Station, Research Paper RM-286, 15 pages.
158. Newberry, J.D., H.E. Burkhart, and R.L. Amateis. 1989. Individual Tree Merchantable Volume to Total Volume Ratios Based on Geometric Solids. *Canadian Journal of Forest Research* 19:679-683.
159. Ngong, F. J. 1989. The use of upper stem diameter measurement in tree volume equations. Thesis 26pp
160. Scrivani, J.A. 1989. An Algorithm for Generating "Exact" Girard Form Class Volume Table Values. *Northern Journal of Applied Forestry* 6(3):140-142.
161. Solomon, D.S., T.D. Droessler, and R.C. Lemin, Jr. 1989. Segmented Quadratic Taper Equations for Spruce and Fir in the Northeast. *Northern Journal of Applied Forestry* 6(3):123-126.
162. Waddell, D.R. 1989. Estimating Load Weights with Huber's Cubic Volume Formula: A Field Trial. US Forest Service, Pacific Northwest Research Station, Research Note PNW-RN-484, 11 pages.
163. Wiant, Jr., H.V. 1989. Local Volume Tables for West Virginia Species. The Consultant, Fall, pages 79-80.
164. Bruce, D. and Max, T. A. 1990. Use of profile equations in tree volume estimation. 213-220pp
165. Chiba, Y. 1990. A Quantitative Analysis of Stem Form and Crown Structure: the S-curve and its Application. *Tree Physiology* 7:169-182.
166. Clark III, A. and J.R. Saucier. 1990. Tables for Estimating Total-Tree Weights, Stem Weights, and Volumes of Planted and Natural Southern Pines in the Southeast. Georgia Forestry Commission, Forest Research Paper 79, 23 pages.
167. Rustagi, K.P. 1990. A Simple Measure of Stem Form. University of Washington, Center for Quantitative Science, HR-20, 10 pages.
168. Shiver, B.D. and G.H. Brister. 1990. Tree and Stand Volume Functions for Eucalyptus Saligna in Western Kenya. University of Georgia, School of Forest Resources, 10 pages.
169. Baldwin, Jr., V.C. and D.P. Feduccia. 1991. Compatible Tree-Volume and Upper-Stem Diameter Equations for Plantation Loblolly Pines in the West Gulf Region. *Southern Journal of Applied Forestry* 15(2):92-97.

170. Biggs, P.H. 1991. Aerial Tree Volume Functions for Eucalypts in Western Australia. *Canadian Journal of Forest Research* 21:1823-1828.
171. Hahn, J.T. and M.H. Hansen. 1991. Cubic and Board Foot Volume Models for the Central States. *Northern Journal of Applied Forestry* 8(2):47-57.
172. Lappi, J. 1991. Calibration of Height and Volume Equations with Random Parameters. *Forest Science* 37(3):781-801.
173. Leech, J.W., R.L. Cornell, and A.K. Myint. 1991. Use of Principal-Coordinate Analysis to Assist in Aggregating Species for Volume-Table Construction. *Forest Ecology and Management* 40:279-288.
174. Williams, J.G., W.H. McNab, and A. Clark III. 1991. Volume Estimators for Pondcypress Butt Logs. US Forest Service, Southeastern Forest Experiment Station, Research Note SE-361, 7 pages.
175. Chojnacky, D.C. and J.D. Born. 1992. Dryland Forest Volume: Another Look at the Visual Segmentation Technique. US Forest Service, Intermountain Research Station, Research Note INT-399, 7 pages.
176. Cormier, K.L., R.M. Reich, R.L. Czaplewski, and W.A. Bechtold. 1992. Evaluation of Weighted Regression and Sample Size in Developing a Taper Model for Loblolly Pine. *Forest Ecology and Management* 53:65-76.
177. Kaufmann, E. 1992. Tree Volume Estimation and Sample Tree Selection in the Swiss NFI. *Metsantutkimuslaitoksen tiedonantoja* 444:185-193.
178. McTague, J.P. 1992. Enhanced Estimates of Total Volume with any Single Upper-Stem Measurement. *Forest Ecology and Management* 48:55-67.
179. Shiver, B.D. and G.H. Brister. 1992. Tree and Standard Volume Functions for *Eucalyptus saligna*. *Forest Ecology and Management* 47:211-223.
180. Smith, W.R. and C.E. Thomas. 1992. An Iterative Reweighting Procedure for Volume Equations Based on Diameter. *Southern Journal of Applied Forestry* 16:64-67.
181. McTague, J.P., W.F. Stansfield and Z. Lan. 1992. Southwestern Ponderosa Pine, Douglas-Fir and White Fir Volume Equations and Taper Functions: A Report. Northern Arizona University, School of Forestry, Flagstaff AZ, 173 pages.
182. Aleixo da Silva, J.A. and B.E. Borders. 1993. A Tree Volume Equation Based on Two Lower Stem Diameters for Loblolly Pine in the Southeastern United States. *Southern Journal of Applied Forestry* 17(4):160-162.

183. Aleixo da Silva, J.A., M.R.C.S. de Melo, and B.E. Borders. 1993. A volume Equation for Mangrove Trees in Northeast Brazil. *Forest Ecology and Management* 58:129-136.
184. Fonweban, J. N. 1993. Efficiency of measurement error on the accuracy of volume equations. (never published?)
185. Maurer, N.L. 1993. Deriving Local Tree Volume Information. Ontario Ministry of Natural Resources, NEST Technical Report TR-010, 42 pages.
186. Atkinson, A.C. 1994. Transforming Both Sides of a Tree. *The American Statistician* 48(4):307-313.
187. Bailey, R.L. 1994. A Compatible Volume-Taper Model Based on the Schumacher and Hall Generalized Constant Form Factor Volume Equation. *Forest Science* 40(2):303-313.
188. Chojnacky, D.C. 1994. Volume Equations for New Mexico's Pinyon-Juniper Dryland Forests. US Forest Service, Intermountain Research Station, Research Paper INT-471, 9 pages.
189. Hann, D.W. 1994. A Key to the Literature Presenting Tree Volume and Taper Equations for Species in the Pacific Northwest and California. Oregon State University, College of Forestry, Forest Research Laboratory, Research Contribution 6, 58 pages.
190. Reams, G.A. 1994. Correction for Serial Correlation in Volume Ratio Models. US Forest Service, Southern Forest Experiment Station, Research Paper SO-281, 3 pages.
191. Yamamoto, K. 1994. A Simple Volume Estimation System and its Application to Three Coniferous Species. *Canadian Journal of Forest Research* 24:1289-1294.
192. Yamamoto, K. 1994. Compatible Stem Form Equations Based on the Relationship Between Stem Volume and Stem Cross-sectional Area. *Journal of Japanese Forest Science* 76(2):108-117.
193. Clark III, A. and R.A. Souter. 1994. Stem Cubic-Foot Volume Tables for Tree Species in the South. US Forest Service, Southeastern Forest Experiment Station, Research Paper SE-290, 241 pages.
194. Akinnifesi, F. K. and Akinsani, F. A. 1995. Linear equations for estimating the merchantable wood volume of *Gmelina arborea* in Southwest Nigeria. *Journal of Tropical Forest Science* 7(3): 391-397.
195. Bailey, R.L. 1995. Upper Stem Volumes from Stem Analysis Data: An Overlapping Bolts Method. *Canadian Journal of Forest Research* 25:170-173.
196. Broad, L.R. and G.C. Wake. 1995. Derivative Based Methods for Constructing Volume-Ratio and Taper Equations. *Forest Science* 41(1):157-167.

197. Ferguson, R.B. and V.C. Baldwin, Jr. 1995. A Comparison of Height-Accumulation and Volume-Equation Methods for Estimating Tree and Stand Volumes. US Forest Service, Southern Forest Experiment Station, Research note SO-378, 7 pages.
198. Gordon, A.D., C. Lundgren, and E. Hay. 1995. Development of a Composite Taper Equation to Predict Over- and Under-Bark Diameter and Volume of Eucalyptus saligna in New Zealand. *New Zealand Journal of Forest Science* 25(3):318-27.
199. Sharma, M. 1995. Volume and Taper Equations for Loblolly Pine Trees Using Dimensional Analysis. Virginia Polytechnic Institute and State University, Master of Science in Forestry Thesis, 62 pages.
200. Thomas, C.E., B.R. Parresol, K.H.N. Le, and R.E. Lohrey. 1995. Biomass and Taper for Trees in Thinned and Unthinned Longleaf Pine Plantations. *Southern Journal of Applied Forestry* 19(1):29-35.
201. DeMars, D.J. 1996. Board-Foot and Cubic-Foot Volume Tables for Alaska-Cedar in Southeast Alaska. US Forest Service, Pacific Northwest Research Station, Research Note PNW-RN-516, 15 pages.
202. Gregoire, T.G. and O. Schabenberger. 1996. A Non-Linear Mixed-Effects Model to Predict Cumulative Bole Volume of Standing Trees. *Journal of Applied Statistics* 23(2&3):257-271.
203. Gregoire, T.G. and O. Schabenberger. 1996. Nonlinear Mixed-Effects Modeling of Cumulative Bole Volume with Spatially Correlated Within-Tree Data. *Journal of Agricultural, Biological, and Environmental Statistics* 1(1):107-119.
204. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume Tables for Tree Species in the Appalachian Area. US Forest Service, Southern Research Station, Research Paper SE-292, 127 pages.
205. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume Tables for Tree Species in the Deep South Area. US Forest Service, Southern Research Station, Research Paper SE-293, 131 pages.
206. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume Tables for Tree Species in the Gulf and Atlantic Coastal Plain. US Forest Service, Southern Research Station, Research Paper SE-294, 105 pages.
207. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume Tables for Tree Species in the Piedmont. US Forest Service, Southern Research Station, Research Paper SE-295, 109 pages.
208. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume Tables for Tree Species in

- the Upper Coastal Plain. US Forest Service, Southern Research Station, Research Paper SE-296, 88 pages.
209. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume Tables for Tree Species in the Arkansas Area. US Forest Service, Southern Research Station, Research Paper SE-297, 70 pages.
210. Clark III, A. and R.A. Souter. 1996. Stem Cubic-Foot Volume tables for Tree Species in the Delta Area. US Forest Service, Southern Research Station, Research Paper SE-298, 86 pages.
211. Kangas, A. 1996. On the Bias and Variance in Tree Volume Predictions Due to Model and Measurement Errors. *Scandinavian Journal of Forest Research* 11:281-290.
212. Williams, M.S. and H.T. Schreuder. 1996. Prediction of Gross Tree Volume Using Regression Models with Non-Normal Error Distributions. *Forest Science* 42(4):419-430.
213. Abbot, P., J. Lowore, and M. Werren. 1997. Models for the estimation of single tree volume in four Miombo woodland types. *Forest Ecology and Management* 97:25-37.
214. Pontailier, J.Y., R. Ceulemans, J. Guittet, and F. Mau. 1997. Linear and Non-Linear Functions of Volume Index to Estimate Woody Biomass in High Density Young Poplar Stands. *Annals of Forest Science* 54:335-345.
215. Tarp-Johansen, M.J., J.P. Skovsgaard, S.F. Madsen, V.K. Johannsen, and I. Skovgaard. 1997. Compatible stem taper and stem volume functions for (*Quercus robur* L and *Q. petraea* (Matt) Liebl) in Denmark. *Annals of Forest Science* 54:577-595.
216. Bi, H. and F. Hamilton. 1998. Stem Volume Equations for Native Tree Species in Southern New South Wales and Victoria. *Australian Forestry* 61(4):275-286.
217. Fonweban, J.N., Mfou'ou, M.B. and Eba'a, A.R. 1998. Volume equations for some major timber species in South Cameroon. *Sci. Agron. et Dév.*1(1): 61-69.
218. Parresol, B.R. 1998. Prediction and Error of Baldcypress Stem Volume from Stump Diameter. *Southern Journal of Applied Forestry* 22(2):69-73.
219. Bi, H. 1999. Predicting Stem Volume to any Height Limit for Native Tree Species in Southern New Whales and Victoria. *New Zealand Journal of Forestry Science* 29(2):318-331.
220. Filho, A.F. and L.B. Schaaf. 1999. Comparison Between Predicted Volumes Estimated by Taper Equations and True Volumes Obtained by the Water Displacement Technique (xylometer). *Canadian Journal of Forest Research* 29:451-461.
221. Fonweban, J.N. 1999. An evaluation of numerical integration of taper functions for

- volume estimation in Eucalyptus saligna stands. *Journal of Tropical Forest Science* 11(2): 410-419.
222. Woods, M.E. and Zakrzewski, W.T. 2000. Timber product volume tables for jack pine and red pine in Ontario. Ontario Ministry of Natural Resources Science Development and Transfer Branch, SCSS Technical Note #05, 94 pages.
223. Eerikainen, K. 2001. Stem Volume Models with Random Coefficients for *Pinus kesiya* in Tanzania, Zambia, and Zimbabwe. *Canadian Journal of Forest Research* 31:879-888.
224. Newbold, R.A., V.C. Baldwin, Jr., and G. Hill. 2001. Weight and Volume Determination for Planted Loblolly Pine in North Louisiana. US Forest Service, Southern Research Station, Research Paper SRS-26, 19 pages.
225. Sharma, M. and R.G. Oderwald. 2001. Dimensionally Compatible Volume and Taper Equations. *Canadian Journal of Forest Research* 31:797-803.
226. Brooks, J.R., Martin, S., Jordon, J. and Sewell, C. 2002. Interim taper and cubic-foot volume equations for young longleaf pine plantations in southwest Georgia. In Proceedings of the eleventh biennial southern silvicultural research conference, U.S. Department of Agriculture Forest Service, General Technical Report SRS-48, Asheville, NC.
227. Hansen, M. 2002. Volume and biomass estimation in FIA: national consistency vs. regional accuracy. In McRoberts, R.E., Reams, G.A., Van Deusen, P.C. and Moser, J.W. eds. Proceedings of the Third Annual Forest Inventory and Analysis Symposium; General Technical Report NC-230. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station: 109-120
228. Patterson, D. W. and Doruska, P. F. 2002. A new and improved modification to Smalian's equation for butt logs. *Forest Products Journal* 54(4):69-72.
229. Salas, E. C. 2002. Fitness and validation of volume equations for a relict forest of Roble-Laurel-Lingue. *Bosque* 23(2):81-92.
230. Spelter, H. 2002. Conversion of Board Foot Scaled Logs to Cubic Meters in Washington State, 1970-1998. US Forest Service, Forest Products Laboratory, General Technical Report FPL-GTR-131, 6 pages.
231. Zhang, Y., Borders, B.E. and Bailey, R.L. 2002. A compatible stem taper-volume-weight system for intensively managed fast growing loblolly pine. In Proceedings of the eleventh biennial southern silvicultural research conference, U.S. Department of Agriculture Forest Service, General Technical Report SRS-48, Asheville, NC.
232. Bullock, B.P. and H.E. Burkhart. 2003. Equations for Predicting Green Weight of Loblolly Pine Trees in the South. *Southern Journal of Applied Forestry* 27(3):153-159.

233. Garber, S.M. and D.A. Maguire. 2003. Modeling Stem Taper of Three Central Oregon Species Using Nonlinear Mixed Effects Models and Autoregressive Error Structures. *Forest Ecology and Management* 179:507-522.
234. Lee, G.S. and R.C. Parker. 2003. Standing Tree Weight and Volume Tables for Natural Loblolly Pine at the First Delivery Point. Mississippi State University, Forest and Wildlife Research Center, Research Bulletin FO 222, 14 pages.
235. Oderwald, R.G. and S. Popescu. 2003. A Simplified Method of Predicting Percent Volume in Log Portions. *Southern Journal of Applied Forestry* 27(3):149-152.
236. Parent, D.R. 2003. A Stand Volume Equation for Cruising Small-Diameter Material. *Journal of Forestry*, July/August, pages 5-6.
237. Zarnoch, S.J., A. Clark III, and R.A. Souter. 2003. Comparison of Past, Present, and Future Volume Estimation Methods for Tennessee. US Forest Service, Southern Research Station, Research Note SRS-12, 6 pages.
238. Monserud, R.A., Parry, D.L. and Todoroki, C.L. 2004. Recovery from simulated sawn logs with sweep. *New Zealand Journal of Forestry Science* 34(2): 190-205.
239. Patterson, D. W., Doruska, P. F. and Posey, T. 2004. Weight and bulk density of loblolly pine plywood logs in southeast Arkansas. *Forest Products Journal* 54(12):145-148
240. Patterson, D. W. and Doruska, P. F. 2004. A new and improved modification to Smalian's equation for butt logs. *Forest Products Journal* 54(4):69-72.
241. Verrill, S., Herian, V. L., and Spelter, H. 2004. Estimating the board foot to cubic foot ratio. Res. Pap. FPL-RP-616. 18p.
242. Brandeis, T. J., Kuegler, O., and Knowe, S. A. 2005. Equations for merchantable volume for subtropical moist and wet forests of Puerto Rico. Research Paper SRS-39. Asheville, NC:U.S. Department of Agriculture Forest Service, Southern Research Station. 15p.
243. Patterson, D. W. and Doruska, P. F. 2005. Effect of seasonality on bulk density, moisture content, and specific gravity of loblolly pine tree-length pulpwood logs in southern Arkansas. *Forest Products Journal* 55(12):204-208.
244. Salas, C. Irissarri, L. N. Y. A. 2005. Modelos de volume para *Pinus pinaster* Ait. En la Comarca del Baixo Miño, Galicia, España. Volume equations for *Pinus pinaster* Ait. In the Baixo Miño region, Galicia, Spain. *Quebracho* 12:11-22.
245. Salas, C. E. 2005. Measurement of upper-stem diameters with Bitterlich mirror relascope and Finnish parabolic caliper: effects in volume estimations. *Bosque* 26(2):81-90.
246. Teshome, T. 2005. A ratio method for predicting stem merchantable volume and

- associated taper equations for *Cupressus lusitanica*, Ethiopia. *Forest Ecology and Management* 204: 171-179.
247. Doruska, P., Patterson, D., Hartley, J. and Hurd, M. 2006. Outside-bark green tons per thousand board feet: a case study using sawtimber-sized hardwood trees in Arkansas. *Journal of Forestry* 104(7): 345-351.
248. Leduc, D. J. 2006. PINEVOL: a user's guide to a volume calculator for southern pines. General Technical Rep. SRS-95. Asheville, NC: U.S.D.A. Forest Service, Southern Research Station. 12p.
249. Sadiq, R.A. 2006. A new approach to log volume estimation. *Southern Journal of Applied Forestry* 30(1): 30-39.
250. Brooks, J. R., Jiang, L. and Clark III, A. 2007. Compatible stem taper, volume, and weight equations for young leaf pine plantations in Southwest Georgia. *Southern Journal of Applied Forestry* 31(4): 188-191.
251. Corral-Rivas, J. J., Barrio-Anta, M., Aguirre- Calderon, O. A. and Dieguez-Aranda, U. 2007. Use of stump diameter to estimate diameter at breast height and tree volume for major pine species in El Salto, Durango (Mexico). *Forestry* 80(1) 29-40.
252. Dahl, C., Harding, B. and Wiant, H. 2007. Quick volume coefficient determination for point sampling. *Northern Journal of Applied Forestry* 24(4)314-316.
253. Patterson, D. W., Doruska, P. F, Hartley, J. and Hurd, M. 2007. Validating the Patterson and Doruska equation for estimating the volume of hardwood butt logs. *Forest Products Journal* 57(1/2):67-70.
254. Westfall, J. A. and Patterson, P. L. 2007. Measurement variability error for estimates of volume change. *Canadian Journal of Forest Resources* 37: 2201-2210.
255. Jiang, L. and Brooks, J. R. 2008. Taper, volume, and weight equations for red pine in West Virginia. *Northern Journal of Applied Forestry* 25(3):151-153
256. Özçelik, R. Wiant, H. V. and Brooks, J. R. 2008. Accuracy using xylometry of log volume estimates for two tree species in Turkey. *Scandinavian Journal of Forest Research* 23:272-277.
257. Westfall, J. A. 2008. Differences in computed individual-tree volumes caused by differences in field measurements. *Northern Journal of Applied Forestry* 25(4):195-201.
258. Miles, P. D. and Hill, A. D. (2010) Volume equations for the Northern research stations forest inventory and analysis program as of 2010. USDA Forest Service General Technical Report NRS-74. 50p.

259. Nyland, R. D. and Kiernan, D. 2010. Form class and its use in estimating sawtimber volume of sugar maple trees. *Northern Journal of Applied Forestry* 27(2): 75-77.
260. Zakrzewski, W. T. 2011. Estimating wood volume of the stem and branches of sugar maple (*Acer saccharum* Marsh.) Using a stem profile model with implicit height. *Forest Science* 57(2): 117-133.
261. Burkhart, H. E. and Tomé, M. 2012. Tree-stem volume equations. Chapter 3 of *Modeling Forest Trees and Stands*. Springer DOI 10.1007/978-90-481-3170-9_3
262. Hjelm, B. and Johansson, T. 2012. Volume equations for opolars growing on farmlands in Sweden. *Scandinavian Journal of Forest Research* 27: 561-566.
263. Fortin, M., Schneider, R. and Saucier, J-P. 2013. Volume and error variance estimation using integrated stem taper models. *Forest Science* 59(3) 345-358.
<http://dx.dpi.org/10.5849/forsci.11-146>
264. Özçelik, R., Diamantopoulou, M. J., and Brooks, J. R. 2014. The use of tree crown variables in over-bark diameter and volume prediction models. *iForest : Biogeosciences and Forestry* 7: 132-139