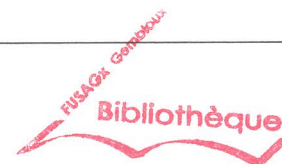


EDITOR'S NOTE

1 New and Improved

W.K. Moser



SPECIAL SECTION

Uncertainty in Individual Tree Volume/Biomass Models

biometrics

- 3 Sample-Based Estimation of Greenhouse Gas Emissions From Forests—A New Approach to Account for Both Sampling and Model Errors
G. Ståhl, J. Heikkinen, H. Petersson, J. Repola, and S. Holm
- 14 Effects of Measurement Errors on Individual Tree Stem Volume Estimates for the Austrian National Forest Inventory
A. Berger, T. Gschwantner, R.E. McRoberts, and K. Schadauer
- 25 Quantifying the Model-Related Variability of Biomass Stock and Change Estimates in the Norwegian National Forest Inventory
J. Breidenbach, C. Antón-Fernández, H. Petersson, R.E. McRoberts, and R. Astrup
- 34 Effects of Uncertainty in Model Predictions of Individual Tree Volume on Large Area Volume Estimates
R.E. McRoberts and J.A. Westfall

FUNDAMENTAL RESEARCH

biometrics

- 43 Individual Tree Diameter, Height, and Volume Functions for Longleaf Pine
C.A. Gonzalez-Benecke, S.A. Gezan, T.A. Martin, W.P. Cropper Jr., L.J. Samuelson, and D.J. Leduc

forest ecology

- 57 Competitive Advantage of Black Spruce Over Balsam Fir in Coniferous Boreal Forests of Eastern North America Revealed by Site Index
Y. Messaoud, H. Asselin, Y. Bergeron, and P. Grondin

forest management

- 63 Addressing Multicriteria Forest Management With Pareto Frontier Methods: An Application in Portugal
J.G. Borges, J. Garcia-Gonzalo, V. Bushenkou, M.E. McDill, S. Marques, and M.M. Oliveira
- 73 Balancing Decisions for Adaptive and Multipurpose Conversion of Norway Spruce (*Picea abies* L. Karst) Monocultures in the Black Forest Area of Germany
R. Yousefpour and M. Hanewinkel
- 85 A Spatial Stochastic Programming Model for Timber and Core Area Management Under Risk of Fires
Y. Wei, M. Bevers, D. Nguyen, and E. Belval
- 97 Systemic Control of Nantucket Pine Tip Moth (*Rhyacionia frustrana* Scudder in Comstock, 1880) Enhances Seedling Vigor, Plantation Establishment, and Early Stand-Level Productivity in *Pinus taeda* L.
J.S. King, A.M. Kelley, and R. Rees

- 109 **Balancing Revenue and Nutrient Removals in *Pinus elliottii* Engelm. Stands Managed for Pinestraw and Wood Production**
C.A. Gonzalez-Benecke, A.I. Susaeta, T.A. Martin, E.J. Jokela, and D.R. Carter

genetics & tree improvement

- 119 **Genetic Analysis of Diallel Progeny Test Data Using Factor Analytic Linear Mixed Models**
F. Ogut, C. Maltecca, R. Whetten, S. McKeand, and F. Isik

geospatial technologies

- 128 **Estimating Forest Stand Age from LiDAR-Derived Predictors and Nearest Neighbor Imputation**
E.B. Racine, N.C. Coops, B. St-Onge, and J. Bégin

operations research

- 137 **A Robust Model for Protecting Road-Building and Harvest-Scheduling Decisions from Timber Estimate Errors**
C.D. Palma and J.D. Nelson

silviculture

- 149 **Wood Production Efficiency and Growth Dominance in Multiaged and Even-Aged Ponderosa Pine Stands**
S.A. Ex and F.W. Smith

soils & hydrology

- 157 **Growth Responses of Loblolly Pine in the Southeast United States to Midrotation Applications of Nitrogen, Phosphorus, Potassium, and Micronutrients**
C.A. Carlson, T.R. Fox, H.L. Allen, T.J. Albaugh, R.A. Rubilar, and J.L. Stape
- 170 **Effects of Thinning, Residue Mastication, and Prescribed Fire on Soil and Nutrient Budgets in a Sierra Nevada Mixed-Conifer Forest**
D.W. Johnson, R.F. Walker, D.W. Glass, C.M. Stein, J.B. Murphy, R.R. Blank, and W.W. Miller

wildlife management

- 180 **Lizard Microhabitat and Microclimate Relationships in Southeastern Pine-Hardwood Forests Managed With Prescribed Burning and Thinning**
W.B. Sutton, Y. Wang, C.J. Schweitzer, and D.A. Steen

APPLIED RESEARCH

biometrics

- 191 **Thinning Mixed-Species Stands of Douglas-Fir and Western Hemlock in the Presence of Swiss Needle Cast: Guidelines Based on Relative Basal Area Growth of Individual Trees**
J. Zhao, D.A. Maguire, D. Maimwaring, J. Wehage, and A. Kanaskie

forest management

- 200 **An Evaluation of Alternative Measurement Techniques for Estimating the Volume of Logging Residues**
J.J. Long and K. Boston