## FOREST SCIENCE An international journal of research and technical progress

Volume 60 Number 4 August 2014

www.forest-science.org

geospatial technologies

K.D. Brosofske, R.E. Froese, M.J. Falkowski, and A. Banskota

733

27 AOUT 2014

## **FUNDAMENTAL RESEARCH** biometrics Predicting Tree Mortality for European Beech in Southern Germany Using Spatially Explicit Competition Indices 613 A. Boeck, J. Dieler, P. Biber, H. Pretzsch, and D.P. Ankerst Assessing Sampling and Model Error in Standing Green Weight Estimation for a Loblolly Pine Plantation 623 E.J. Green and B. Bullock Deriving a Diameter Distribution from Stand Table Data 628 Q.V. Cao and D.W. Coble The Response of Basal Area Growth of Scots Pine to Thinning: A Longitudinal Analysis of Tree-Specific Series Using a Nonlinear 636 Mixed-Effects Model L. Mehtätalo, H. Peltola, A. Kilpeläinen, and V.-P. Ikonen The Application of Bayesian Model Averaging in Compatibility of Stand Basal Area for Even-Aged Plantations in Southern China 645 X. Zhang, A. Duan, L. Dong, Q.V. Cao, and J. Zhang Direct Variance-Covariance Modeling as an Alternative to the Traditional Guide Curve Approach for Prediction of Dominant 652 Heights M. Wang, M.B. Kane, B.E. Borders, and D. Zhao An Estimator of Variance for Two-Stage Ratio Regression Estimators 663 S. Magnussen, E. Næsset, and T. Gobakken economics Thinnings as Unequal Harvest Ages in Even-Aged Forest Stands 677 R. Coordes fire & fuels management Spruce Beetle-Induced Changes to Engelmann Spruce Foliage Flammability W.G. Page, M.J. Jenkins, and J.B. Runyon forest ecology Aspen Seedling Establishment and Growth after Wildfire in Central Arizona: An Instructive Case History 703 M.L. Fairweather, E.A. Rokala, and K.E. Mock forest management Snag Dynamics and Cavity Excavation after Bark Beetle Outbreaks in Southwestern Ponderosa Pine Forests C.L. Chambers and J.N. Mast genetics & tree improvement Cone to Seedling—Variation between Pinus pinaster Provenances from Contrasting Altitudes I. Correia, L. Santos, C. Faria, C. Nóbrega, H. Almeida, and T. David

A Review of Methods for Mapping and Prediction of Inventory Attributes for Operational Forest Management

narve	sting & utilization
757	The Adequacy of Falling Object Protection Design Criteria for Feller Bunchers K. Lyons, J. Sessions, and J. Wimer
opera	tions research
764	Spatial Optimization in Forest Planning Using Different Fragmentation Measures  A. Korosuo, T. Heinonen, K. Öhman, H. Holmström, and L.O. Eriksson
silvicu	ture
<i>7</i> 76	Leaf Area Development and Crown Architecture in a Giant Sequoia Spacing Study  K.L. O'Hara and R.A. York
	APPLIED RESEARCH
fire &	fuels management
784	Tables for Estimating Canopy Fuel Characteristics from Stand Variables in Four Interior West Conifer Forest Types  M.E. Alexander and M.G. Cruz
forest i	management
795	Preferred Timber Tract Characteristics in the Lake States under Varying Market Conditions  A.M. Kueper, C.R. Blinn, and M.A. Kilgore
804	A Comparison of Lake States Logger and Forester Perceptions of Ideal State Timber Tract Characteristics  A.M. Kueper, C.R. Blinn, and M.A. Kilgore

Changes in Ohio Tree Farmers' Forest Management Strategies and Outreach Needs 811 S.E. Starr and T.E. McConnell

