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

Volume 60 Number 2 April 2014

www.forest-science.org



1	cial section urth Forest Vegetation Simulator Conference
20	Introduction to the Special Section on the Fourth Forest Vegetation Simulator (FVS) Conference
bio	metrics
20	A Comparison of Carbon Stock Estimates and Projections for the Northeastern United States  R.G. MacLean, M.J. Ducey, and C.M. Hoover
21	4 Evaluating Forest Vegetation Simulator Performance for Trees in Multiaged Ponderosa Pine Stands, Black Hills, USA S.A. Ex and F.W. Smith
eco	logy
22	
fire	& fuels management
23	The Effectiveness and Limitations of Fuel Modeling Using the Fire and Fuels Extension to the Forest Vegetation Simulator E.K. Noonan-Wright, N.M. Vaillant, and A.L. Reiner
24	Calibrating and Testing the Forest Vegetation Simulator to Simulate Tree Encroachment and Control Measures for Heathland Restoration in Southern Europe
	G. Vacchiano, R. Motta, G. Bovio, and D. Ascoli
fore	est management
25	Imputing Forest Structure Attributes from Stand Inventory and Remotely Sensed Data in Western Oregon, USA A.T. Hudak, A.T. Haren, N.L. Crookston, R.J. Liebermann, and J.L. Ohmann
<b>E</b>	BRIEF COMMUNICATION
oiometri	ics
270	Allometry of Phloem Thickness and Resin Flow and Their Relation to Tree Chemotype in a Southwestern Ponderosa Pine Forest T.S. Davis and R.W. Hofstetter
F	FUNDAMENTAL RESEARCH
oiometri	CS CS
275	A Mixed-Effects Heterogeneous Negative Binomial Model for Postfire Conifer Regeneration in Northeastern California, USA J.S. Crotteau, M.W. Ritchie, and J.M. Varner
288	Use of an Antithetic Variate for Better Location of Upper-Stem Height Measurements with Critical Height and Importance Sampling in Horizontal Line Sampling

econon	nics
298	Conservation Easements and Management by Family Forest Owners: A Propensity Score Matching Approach with Multi- Imputations of Survey Data
	N. Song, F.X. Aguilar, and B.J. Butler
entomo	ology & pathology
308	Influence of Climatic Conditions and Elevation on the Spatial Distribution and Abundance of <i>Trypodendron</i> ambrosia Beetles (Coleoptera: Curculionidae: Scolytinae) in Alaska  R.M. Reich, J.E. Lundquist, and R.E. Acciavatti
forest e	ecology
317	Estimation of Aboveground Forest Carbon Flux in Oregon: Adding Components of Change to Stock-Difference Assessments  A.N. Gray, T.R. Whittier, and D.L. Azuma
327	Applicability of Predictive Models of Drought-Induced Tree Mortality between the Midwest and Northeast United States
335	Harvest-Created Canopy Gaps Increase Species and Functional Trait Diversity of the Forest Ground-Layer Community C.C. Kern, R.A. Montgomery, P.B. Reich, and T.F. Strong
forest i	management
345	A Functional Framework for Improved Management of Western North American Aspen (Populus tremuloides Michx.)  P.C. Rogers, S.M. Landhäusser, B.D. Pinno, and R.J. Ryel
genetic	cs & tree improvement
360	Genetics of Stem Forking and Ramicorn Branches in a Cloned Loblolly Pine Family  J.S. Xiong, S.E. McKeand, R.W. Whetten, and F.T. Isik
physio	logy
367	Roles of Gibberellin and Auxin in Promoting Seed Germination and Seedling Vigor in <i>Pinus massoniana</i> Z. Guangwu and J. Xuwen
silvicul	lture
374	Sustainability of the Selection System in Northern Hardwood Forests  N.C. Pond, R.E. Froese, and L.M. Nagel
soils &	k hydrology
382	Predicting Risk of Long-Term Nitrogen Depletion Under Whole-Tree Harvesting in the Coastal Pacific Northwest A.J. Himes, E.C. Turnblom, R.B. Harrison, K.M. Littke, W.D. Devine, D. Zabowski, and D.G. Briggs
	APPLIED RESEARCH
biome	
391	Modeling Population Dynamics and Woody Biomass in Alaska Coastal Forest

R.L. Peterson, J. Liang, and T.M. Barrett

silviculture

Response of Aspen Suckers to Simulated Browsing 402

D.L. Bartos, K. Tshireletso, and J.C. Malechek