SILVA FENNICA Vol. 45(4), 2011



METLA

Research articles Pertti Pulkkinen, Saila Varis, Raimo Jaatinen, Aulis Leppänen & 573-581 Anne Pakkanen Increasing survival and growth of Scots pine seedlings with selection based on autumn coloration 583-594 Youhong Peng & Ke Chen Phylogeographic pattern of Populus cathayana in the southeast of Qinghai-Tibetan Plateau of China revealed by cpSSR markers Venceslas Goudiaby, Suzanne Brais, Yvon Grenier & 595-609 Frank Berninger Thinning effects on jack pine and black spruce photosynthesis in eastern boreal forests of Canada 611-632 Scott R. Abella How well do U.S. Forest Service terrestrial ecosystem surveys correspond with measured vegetation properties? Hannu Hökkä, Jaakko Repola, Mikko Moilanen & Markku Saarinen 633-645 Seedling survival and establishment in small canopy openings in drained spruce mires in Northern Finland Meeri Pearson, Markku Saarinen, Kari Minkkinen, Niko Silvan & 647-667 Jukka Laine Mounding and scalping prior to reforestation of hydrologically sensitive deep-peated sites: factors behind Scots pine regeneration success 669-692 Jouni Siipilehto Local prediction of stand structure using linear prediction theory in Scots pine-dominated stands in Finland Annika Kangas, Lauri Mehtätalo, Antti Mäkinen & Kalle Vanhatalo 693-709 Sensitivity of harvest decisions to errors in stand characteristics 711-727 Risto Laamanen & Annika Kangas Large-scale forest owner's information needs in operational planning of timber harvesting - some practical views in Metsähallitus, Finnish stateowned enterprise 729-741 Histochemical and geometric alterations of sapwood in coastal Douglasfir following mechanical damage during commercial thinning Anne Toppinen, Katja Lähtinen, Leena A. Leskinen & 743-759 Niklas Österman Network co-operation as a source of competitiveness in medium-sized Finnish sawmills ■ Luis Diaz-Balteiro, Roberto Voces & Carlos Romero 761-773 Making sustainability rankings using compromise programming. An application to European paper industry

ISSN 0037-5330



Biosciences, genetics, ecology, soils

Silviculture, management, growth, operations, bioenergy

Wood properties, materials, processing, products

New paradigm for saving the world's forests?

■ Economics, social sciences

Book review Pia Katila & Marko Katila

Cover photo Metla/Erkki Oksanen Cover design Tommi Salonen Printed by Tammerprint Oy, Finland

775-778