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Összefoglalás

Recent advances on oak health in Europe

Editors: T. Oszako, C. Delatour

Forest Research Institute, Warsaw 2000

This book is based on papers selected from the international scientific conference "Recent Advances on Oak Health in Europe" held in Warsaw on 22-24 November 1999.

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Megjegyzések

Recent advances on oak health in Europe

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Tartalom:

Preface - Tomasz Oszako, Zbigniew Sierota

Welcoming address - Zbigniew Sierota

I. Oak situation in Europe

Oak declines in Europe's forests - history, causes and hypothesis - Tomasz Oszako

Oak decline in Europe. Methods and results of assessments in the ICP forests -

Johannes Eichhorn, Uwe Paar

Methodical grounds for assessing damage to oak stands - Elżbieta Dmyterko, Arkadiusz Bruchwald

Current state of health of oaks in Saxony-Anhalt - Hans-Günter Kontzog

Oak condition in southern Sweden - Stefan Anderson, Sture Wijk, Kerstin Sonesson

Oak decline in the Middle Povolzhje region of Russia - Igor A. Yakovlev, Alexandr S. Yakovlev

Oak decline in the forest-steppe region of Russia - Nelly Selochnik

Oak decline in Hungary: case study - Zoltán Somogyi

Health condition of oak stands in Slovakia - Roman Leontovyč, Andrej Kunca

Genetic cartography of oaks in Poland using PCR-RFLP markers of the chloroplast DNA - Izabela Głaz

Recent observation on oak decline in southern Belgium: nutritional aspect - Valérie Claes, Jean-Francois Dulière, Francois Malaisse

The condition of *Quercus robur* L. in the Flemish Region - P. Roskams, G. Sioen

The cork oak condition in Portugal - Filomena Ferreira

Multi benefit stands of cork oak (*Quercus suber*) - Ana Cristina Goncalves, Alfredo Goncalves Ferreira, Ângelo Carvalho Oliveira, Nuno Ribeiro

Oak wilt and oak decline in the upper midwest USA - Jennifer Juzwik, Thomas L. Schmidt

II. Abiotic (environmental) and biotic (pests and diseases) constraints to which oak forest is submitted

Twig abscission (cladogenesis) and its ecophysiological significance for decline symptoms in *Quercus robur* L. - Andreas Roloff, Klaus Klugmann

Water shortage as a key factor in the case of oak dieback in the Harth Forest (Alsacian plain, France) as demonstrated by dendroecological and ecophysiological study - Nathalie Bréda

Comparison of water-use efficiency between *Quercus petraea* and *Quercus robur* - Stephane Ponton, J.-L. Dupouey, Nathalie Bréda, Erwin Dreyer

Variations in photosynthesis rate of common oak in the Russian south-eastern forest-steppe under changing environment - A. G. Molchanov

Stomatal conductance in the leaves of *Quercus cerris* L. and *Quercus frainetto* Ten. in a field experiment - Viorel Blujdea, Mihaela Pauca-Comanescu

Variability in phenology and height of European provenances of sessile oak (*Quercus petraea* Liebl.) at permanent provenance plots in France - Piotr Małż

Impact of winter frosts on the state and quality of oak forests in the Middle Povolzhje region of Russia - Igor A. Yakovlev

Nutrients in soil and leaves of oak stands in southern Sweden and Poland - Bengt Nihlgård, Stanisław Małek and Kerstin Sonesson

Short term effects of nitrogen-free fertilisation in three oak stands in southern Sweden - Kerstin Sonesson

Association of soil macro and microelements and cork oak decline in Portugal - Edmundo Manuel de Sousa, João Castro Pinto, Maria Natércia Santos, Alberto Azevedo Gomes, Luís Filipe Bonifácio

Agrilus biguttatus (Col.: Buprestidae) in relation with oak decline - Leen Morall,

Jacek Hilszczański

The impact of insects - defoliators to the oak decline in Ukraine - Valentina Meshkova

Comparative pathological status of early- and late-flushing of *Quercus robur* L. in the mid-Russian forest-steppe - Nelly Selochnik, M. Romanovsky

Genetic research on *Armillaria* spp., the pathogen of oak trees - Aleksandra Potyralska, Ryszard Siwecki

Occurrence of *Armillaria* species in oak stands in Poland - Anna Żółciak

The comparison of the distribution of cpDNA haplotypes of oaks in the Forest Districts of Smolarz and Krotoszyn - Aleksandra Potyralska, Ryszard Siwecki

Dendrochronological analysis of radial growth dynamics of oaks in the Smolarz forest district - Krzysztof Ufnalski, Ryszard Siwecki

Germin gene expression induced by stress - Justyna Nowakowska, Krzysztof Rakowski

The role of the Forest Gene Bank in Kostrzyca in the policy of protecting the genetic resources of Polish forests Kazimierz Toka

Kiadó: Forest Research Institute, Warsaw

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