How to increase forest productivity. Present international Scientific findings. By MIROSŁAW VYSKOT, Brno, leader of the authors' team. Scientific Editor GUSTAV VINCENT, Brno. 1968. 422 pp., with 103 figs. Státní zemědělské nakladatelství, Prague, CSSR. Cloth KCS 54.—

The vorliegende Band ist das Ergebnis einer freiwilligen internationalen Zusammenarbeit von Fachleuten aus verschiedenen Produktionsgebieten Europas. Sie waren sich einig in der Meinung, dass das Problem der Waldproduktion eine bedeutende Rolle in der Entwicklung der Holzindustrie spielt. Die Autoren dieses Bandes haben versucht, die aktuellen Forschungsergebnisse und Praxisbeispiele aus verschiedenen Ländern zusammenzufassen und eine Plattform für eine aktive Diskussion zu schaffen.


This book is intended as a manual for nut tree growers. The first 180 pages are devoted to topics such as propagation, pest control, nutrition, marketing, etc. These chapters on the care of nut trees are up to date and very useful. The next 230 pages are devoted to discussions of individual species, mostly in the genera Caragana (Hicoria) juglandis, Caragana, and Corylus, with smaller descriptions of cocos (coconut), Prunus amygdalus (almond), Anacardium (cashew), Macadamia, Pistacia, Quercus, Pinus, and Ginkgo. These descriptions generally include history, flowering characteristics, breeding problems, recommended propagation methods, and comments on the most important cultivars. Nut tree breeders, mostly amateurs, have concentrated on the selection of seedlings clones to be propagated by grafting. Many commercial nurseries have been pleased to supply machines to the selection work being done by the amateurs. This book is well written and provides valuable information for anyone interested in growing nut trees.

J. W. Wright

Referate


Populus tremuloides, P. balsamifera, P. balsamifera subsp. trichocarpa, P. deltoides, P. angustifolia and P. acuminata grow in river valleys of the Alberta plains region, the southern species reaching their limit in this area. All the species have the same chromosome number (2n = 38), are not morphologically isolated, and putative hybrids are found. Hybrid survival is facilitated by habitat instability caused by constant erosion, deposition, and channel shifting. Collections of leaves and branches were made at 55 locations throughout the region and analysed together with herbarium specimens using Anderson's hybrid index and scatter diagrams. Tentative results are that most of the species cross freely and form hybrid swarms of very diverse appearance. P. tremuloides was usually ecologically separated from the other species, but if growing together with them, appeared to cross only with P. deltoides and P. deltoides hybrids. In most hybrids stand only two parental species were involved, but some of them were descended from three or four species. No evidence was found that new sub species or species are evolving since most hybrid populations are not isolated but are in contact with their respective pure species.

The many diverse forms found are considered promising material for the selection, to broaden the range of poplar varieties currently utilized.

MORGENSTERN

Corrigenda


1. On page 31, the first paragraph in the right column, after "the sentence ending "artificial as well as natural selection," a sentence is missing. The missing sentence to be added is "- However, in analyses presented here, it is assumed that both candidates and testers are a random sample from the same population of blister-rust-free white pines of the region."

2. Formula 4 on page 32 has an error in the denominator; at the left, of the first 2 expressions in the denominator (σ²p), only σ²p should be over I.

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