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## BOOK REVIEW

TOKÁR, F.: BIOMASA VYBRANÝCH CUDZOKRAJNÝCH DREVÍN U LESNÝCH POROSTOCH JUHOZÁPADNÉHO SLOVENSKA. [Biomass of Selected Introduced Woody Plants in Forest Communities of South-West Slovakia]. — VEDA, Bratislava 1986. Kčs 13.—.

The publication presents the results of biomass measurements carried out on selected tree species in eleven permanent research plots, in the forest districts Partizánske, Palárikovo and Levice. In pure stands of *Castanea sativa*, *Quercus rubra* and *Juglans nigra* as well as in mixed stands with *Quercus petraea* L., *Tilia cordata* M. and *Pinus silvestris* L., the following parameters were measured: age and number of trees, stand basal area at breast height, dimensions of a mean stem, mean annual volume increment, fresh and dry matter of above-ground biomass, and the leaf area index. Among the relevant results of comparative measurements in stands aged 18—19 years, the author emphasizes a high volume increase of above-ground biomass in a mixed stand of *Castanea sativa* M. with *Quercus petraea* L. As concerns the species *Quercus rubra* L. and *Juglans nigra* L., maximum production was established in pure *Quercus rubra* L. stand and in mixed stand of these two trees with a predominance of *Quercus rubra* L.

It is a pity that the principal results obtained on all 11 plots have not been shown in a Table form. It would show that the growths examined are not homogeneous enough to accept the presented results unequivocally. Considerable differences in the number of stems on individual plots point to differences in tending or in spacing right at the planting of trees. In addition, the differences in heights of trees of nearly the same age would indicate a different site class, *i.e.* sites of unequal productivity.

From the methodical viewpoint the paper brings a number of interesting data, *e.g.* on the assessment of biomass amount, leaf area index and the distribution of biomass between stem, branches and shoots.

For the application of the results in the forestry practice it would be necessary to extent the investigation to all age classes and compare the production in mixed stands of trees near to the planned rotation age.

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