Turkish Journal of Botany

Turkish Journal

of

Botany

Sclerophylly in Fraxinus angustifolia Vahl. subsp. oxycarpa (Bieb. ex Willd.) Franco & Rocha Afonso and Laurus nobilis L. and Edaphic Relations of These Species

Hamdi Güray KUTBAY
University of Ondokuz Mayıs, Faculty of Arts and Sciences, Department of Biology, 55139, Kurupelit-Samsun, TURKEY

Keywords
Authors

Abstract: Sclerophylly and foliar nutrient status and interactions between these factors in ash (Fraxinus angustifolia Vahl. subsp. oxycarpa (Bieb. ex Willd.) Franco & Rocha Afonso) and laurel (Laurus nobilis L.) species were examined. In addition, correlations between sclerophyll index and leaf and soil parameters were investigated. It was found that there were statistically significant differences between the mid-growing season and the end of the growing season with respect to leaf N % concentration, N/Ca and N/Mg ratios in ash, and with respect to leaf N % concentration and soil K % concentration in laurel. The sclerophyll index was negatively correlated with leaf P % concentration in both species. Some important correlations were also found between leaf and soil nutrient concentrations.

Key Words: Sclerophyll index, evergreenness and deciduousness, foliar nutrient status.

bot@tubitak.gov.tr

Scientific Journals Home Page

Turk. J. Bot., **24**, (2000), 113-120.
Full text: pdf
Other articles published in the same issue: Turk. J. Bot.,vol.24,iss.2.