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( *Picea abies* (L.) Karst )

*Picea excelsa*

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## A Quantitive and Qualitive Study of *Picea excelsa* and *Pinus nigra* in Fandoghloo Forest Reserve.

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### Abstract

To study the quantitative and qualitative characteristics of *Picea excelsa* and *Pinus nigra* plantations in Ardabil, Fandoghloo forest reserve was selected. Seventeen square sampling plots (10×10 m) were selected using randomized systematic sampling. Quantitative characteristics included survival rate, total and height, collar diameter while vitality was taken as the qualitative characteristic. A comparative study between *Picea excelsa* and *Pinus nigra* on identical aspect and slope ( southern , 20 % ) indicated a higher growth of diameter and height for *Picea excelsa*. (*Picea excelsa* 1.12 Cm and 0.26 m , *Pinus nigra* 0.64 Cm and 0.15 m). Results showed that from survival point view, there was no significant difference between the species. From vitality point of view, *Picea excelsa* was superior.

**Keywords:** Plantation, Quantitive and Qualitive Study, *Picea excelsa*, *Pinus nigra*, Fandoghloo, Ardabil.

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