

## Estimating carbon sequestration in the wood products pool: Model adaptation and application for Austrian conditions

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### **Abstract**

Based on previous approaches from the literature a model for estimating carbon sequestration in the wood products pool for Austrian conditions is developed. Model structure and model parameters are derived from national statistics, yearbooks of the wood processing industry as well as research reports, and complemented by information from a generic European wood products model. Beyond presenting the model structure and a complete list of all model parameters the applicability of the presented model is demonstrated by an example. Simulated harvests over 30 years from a 37.2 ha forest property in Austria is used as model input. Carbon sequestration in the wood products pool is estimated for three timber use scenarios. Model output was sensitive to timber use parameters. Uncertainties in the modeling approach as well as possible model extensions are discussed.