

A PERSPECTIVE OF TREE POPULATION MODELS AND STRUCTURES,
INVOLVING DIAMETER, BIOMASS AND AGE

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ABSTRACT

Simple models conventionally used in analyzing diameter, biomass and age structures, have been applied to data for nine species of hardwoods on a naturally forested watershed. These models can be used to predict population structure with regard to canopy position, species longevity and growth rates. The number of individuals in the population is largely regulated by density, and is most clearly seen in short lived species. Longer lived species have more complex and variable structures due to environmental perturbations and factors associated with increasing age.