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Tree distribution study of diameter class in a forest stand of Kashmir: (Case Study: Manasbal Forest Stand)

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ABSTRACT

Probability distributions viz. Lognormal, Weibull, Exponential and Gamma distributions were used to fit tree diameter data collected from a forest stand containing a heterogenous population of trees with a maximum species of Robinia. To estimate the parameters of the fitted distributions the method of maximum likelihood was used. The distributions were evaluated using various goodness of fit tests viz. Kolmogorov Smirnov, Cramer-von Mises, Anderson Darling statistics and the best distribution pertaining to the forest stand was ascertained.

Keywords: Distributions, Diameter class, Robinia, Goodness of fit statistics.