Species diversity in two different forest of Siwalik Range in J&K Himalaya, India

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Abstract
The present study deals with the species diversity of two identified forest i.e., mixed broad leaved forest (Forest type-1) and pine forest (Forest type-2) of Shiwalik range in J&K Himalaya. Ten plots of 10×10 m were randomly established in the forest for the determination of species diversity and other vegetation parameter ranging from 500-1200m asl. *Acacia modesta* was the dominant species of forest type-1 followed by *Mallotus philippensis*, *Cassia fistula*, etc. *Pinus roxburghii* was the dominant tree species of forest type-2 but also shows some sort of dominancy in forest type-1. Shrubs and herbs diversity and density was shown decreased with pine dominating forest. It was also observed that the studied forest was unstable and degraded, and will be vanished if not maintained properly.

Keywords: Broad leaved forest, distribution pattern, disturbance effect, Pine forest, regeneration status, Species diversity