

Allometric model	Formula	Domain of validity		Predictors	Application site
		Climate	D(cm)		
Dimobe et al. 2018a	$AGB = e^{-1.38(DBH)^{1.06}} + e^{-2.9(DBH)^{2.47}} + e^{-2.23(DBH)^{1.73}} (Ht)^{0.8}$	Sudanese	5-35cm and more	D ; H	Both
Mbow et al., (2013)	$AGB = 1.929 \times D + 0.116 \times D^2 + 0.013 \times D^3$	Soudanese and Soudano-Guinean	5-41,5cm	D	Both
FAO1	$Y = \exp [-1.996 + 2.32 \ln(D)]$ $Y = 10^{(-0.535 + \log_{10}(D))}$	Pmm < 900mm Pmm > 900mm	5-40cm 3-30cm	D	FCmR FCmB
Chave et al. (2014)	$AGB = 0,0673 \times (\rho D^2 H)^{0.976}$	Tropical zone	5 – 212	D ; $\rho$ ; H	Both

Source : Literature review

# Allometric Equations For Biomass Estimation Of Woody

**Daniela Niemeyer**



## **Allometric Equations For Biomass Estimation Of Woody:**

*Conservation of Biodiversity in the North Eastern States of India* Ramagopal V. S. Uppaluri, Latha Rangan, 2023-03-23

This volume presents part of the proceedings of NERC 2022 with an emphasis on conservation of bio diversity in North east India This is a highly challenging and involved topic due to regionally diverse physiographic geographical and eco climatic conditions Henceforth systemic and holistic frameworks are required to disseminate upon the potential of science and technology for the conservation of the region s bio diversity Notable among these frameworks refers to plant microbial and animal bio diversity conservation value added product development and sharing the benefits of such research for the perspective of bio prospects analysing critical environmental and climatic factors and their sensitivity upon urbanization strategies Tools that are to be deployed for such insights involve plant animal and microbial bioscience and biotechnology generalized rules for product design and development and survey based strategies Addressing relevant competent methodologies and generic pedagogies this volume on the bio diversity conservation in North eastern states of India aims to demonstrate the potential of pragmatic strategies that can be applied for the bio diversity conservation in any region of world Thereby opportunities for nature linked livelihood security can be sought for the long term wellbeing of the humankind and ecology

**Advanced Geospatial and Ground Based Techniques in Forest Monitoring** Pavan Kumar, Prashant Kumar Srivastava, Mohammed Latif Khan, Ayyanadar Arunachalam, Parth Sarathi Roy, Kireet Kumar, 2025-11-18 Advanced Geospatial and Ground Based Techniques in Forest Monitoring provides insight into advanced geospatial technology in the field of forestry It provides both traditional and special techniques for monitoring the forest including biophysical and biochemical parameters retrieval species identification mapping and classification The book covers the latest technology to using SAR data hyperspectral data and the integration of data sets for the enhanced accuracy of the results and its outcome Advanced Geospatial and Ground Based Techniques in Forest Monitoring will benefit the academic and the research community with latest research ideas and problem solving skills in forestry and land management Includes the application of EO data for forest monitoring in both natural resources mapping and forest sustainable management Presents advancements in geospatial technology using multispectral hyperspectral radar microwave and LIDAR data in forest monitoring and its parameter retrieval Covers upcoming satellite missions for forest monitoring

**Renewable Resources and Biorefineries** Eduardo Jacob-Lopes, Leila Queiroz Zepka, 2019-01-23 Renewable Resources and Biorefineries presents an authoritative and comprehensive overview of biobased technologies for the production of fuels food feed and materials This book provides an insight into future developments in each field and an extensive bibliography It will be an essential resource for researchers and academic and industry professionals in the renewable resources field

**Spatial Information Science for Natural Resource Management** Singh, Suraj Kumar, Kanga, Shruti, Mishra, Varun Narayan, 2020-06-26 Stress on natural resources has recently increased due to commercialization and the need to provide livelihoods for locals Because they are such core

parts of everyday life ensuring sustainability in resource management is of paramount importance Only by integrating the tools of spatial information science can an effective course for preserving and protecting natural resources be created Spatial Information Science for Natural Resource Management is a pivotal reference source that explores coordinated approaches to sustainable development and management of natural resources to keep a balance of the environment ecology and human livelihood Featuring coverage on a wide range of topics including crop yield estimation ecosystem services and land information systems this book covers interdisciplinary techniques in monitoring and managing natural resources This publication is ideally designed for urban planners environmentalists policymakers ecologists researchers academicians students and professionals in the fields of remote sensing civil engineering social science computer science and information technology

**Research Anthology on Ecosystem Conservation and Preserving Biodiversity** Management Association, Information Resources, 2022-04-08 In today's rapidly evolving world it has never been more critical to consider key environmental issues such as climate change pollution and endangered species Society faces an unknown future where the fate of the environment is continuously in flux based on current preservation initiatives that governments develop In order to ensure the world is protected moving forward further study on the importance of securing environments ecosystems and species is necessary to successfully implement change The Research Anthology on Ecosystem Conservation and Preserving Biodiversity considers the best practices and strategies for protecting our current ecosystems as well as the potential ramifications of failing to implement policies Society is at a crossroads where if we continue to ignore the danger and warning signs brought about by environmental issues we will be unable to maintain a healthy environment Covering essential topics such as extinction climate change and pollution this major reference work is ideal for scientists industry professionals researchers academicians policymakers scholars practitioners instructors and students

*Estimation of Tropical Forest Biophysical Attributes with Synergistic Use of Optical and Microwave Remote Sensing Techniques* Cuizhen Wang, 2004

Ecohydrological Response of Dryland Ecosystems to Aridification: The Role of Runoff Water Redistribution Borja Rodríguez Lozano, 2024-11-25 In general according to our results we may conclude that the effect of runoff water redistribution by increasing water and related nutrients for vegetation and underlying soil microbial communities buffer the expected negative response of drylands to aridification The magnitude of this effect depends on the interplay with other environmental factors controlling soil hydrology such as lithology legacy on soil properties Finally we found that this positive buffer effect could be counterbalance in areas of high human disturbance as the negative effects of degradation on soils and vegetation could exacerbate runoff and nutrients losses and limit the capacity of the remaining vegetation to trap and retain the runoff water and related nutrients The new set of allometric equations developed in this thesis for the quantification of green biomass and the proposed ecohydrological index can be easily combined to provide a comprehensive coupled assessment of vegetation dynamics and the related processes of water and nutrient transfer from open spaces to plants Thus

they constitute crucial tools for evaluating the effects of runoff water redistribution across different spatial and temporal scales and for incorporating these effects on Earth System Models ESMs      **General Technical Report NC.** ,1981

**Forest Operations, Engineering and Management** Raffaele Spinelli,2018-09-19 This book is a printed edition of the Special Issue Forest Operations Engineering and Management that was published in Forests      **Geographic Information Systems: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2012-09-30 Developments in technologies have evolved in a much wider use of technology throughout science government and business resulting in the expansion of geographic information systems GIS is the academic study and practice of presenting geographical data through a system designed to capture store analyze and manage geographic information Geographic Information Systems Concepts Methodologies Tools and Applications is a collection of knowledge on the latest advancements and research of geographic information systems This book aims to be useful for academics and practitioners involved in geographical data      IEEE International Geoscience and Remote Sensing Symposium Proceedings ,2002      **IGARSS 2000** ,2000      Minnesota Forestry Research Notes ,1968      **Tropical Ecology** ,2005      **Decision Making with GIS, the Fourth Dimension** ,1994      **Australian Journal of Botany** ,2005      Methodological Issues in Mountain Research ,2003 Contributed papers presented at a workshop held during November 11 16 2002 and sponsored by Unesco and co sponsored by Mountain Research Initiative International Centre for Integrated Mountain Development      **Canadian Journal of Forest Research** ,2016-04      Boyce Thompson Institute Collected Research Papers ,1923      *Journal of Soil and Water Conservation* ,2015 Vol 25 no 1 contains the society s Lincoln Chapter s Resource conservation glossary

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