

1. Record Nr.	UNINA9910508479603321
Autore	Das Gautam Kumar
Titolo	Forests and forestry of West Bengal : survey and analysis // Gautam Kumar Das
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-80706-1
Descrizione fisica	1 online resource (266 pages)
Disciplina	634.9095414
Soggetti	Forests and forestry - India - West Bengal Boscos Llibres electrònics Índia
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Foreword -- Contents -- Abbreviations and Units -- List of Figures -- List of Tables -- Chapter 1: Forest Status of West Bengal -- Physiography: At a Glance -- Forest Covers of West Bengal -- Forests in the Past -- Joint Forest Management, Eco-Development Committee, and Self Help Groups -- National Parks and Wildlife Sanctuaries -- Current Forest Status -- Summary -- References -- Chapter 2: District-Wise Forest Matrix, Forest Models and Strategies -- District-Wise Forest Matrix -- Forest Cover of Bankura District -- Forest Cover Change Matrix -- Forest Cover of Birbhum District -- Past Presence of the Forest -- Forest Cover Change Matrix -- Forest Cover of Cooch Behar District -- Green Infrastructure of Trees -- Forest Cover Change Matrix -- Forest Cover of Darjeeling District -- Forest Bathing -- Forest Cover Change Matrix -- Forest Cover of Howrah Districts -- Rescue Forest -- Forest Cover Change Matrix -- Forest Cover of Kolkata District -- Tree Equity and Urban Heat Island Effects -- Forest Cover Change Matrix -- Forest Cover of Hugli District -- Tree Islands -- Forest Cover Change Matrix -- Forest Cover of Jalpaiguri District -- Forgotten Forest -- Forest Cover Change Matrix -- Forest Cover of Malda District -- Women's Participation for Forest Restoration --

Forest Cover Change Matrix -- Forest Cover of Murshidabad District -- Solitary Tree -- Forest Cover Change Matrix -- Forest Cover of Nadia District -- Social Forestry -- Forest Cover Change Matrix -- Forest Cover of North 24 Parganas District -- Green Infrastructure -- Blue Carbon -- Reclamation History of Forest Lands -- Forest Cover Change Matrix -- Forest Cover of Paschim Medinipur District -- Community Forests -- Forests and the Tribal Community -- Forest Cover Change Matrix -- Forest Cover of Purba Bardhaman and Paschim Bardhaman Districts -- Myths-History.

Divisional Forest Scenario -- Forest Cover Change Matrix -- Forest Cover of Purba Medinipur District -- Historical Perspectives -- Social Distancing of Trees -- Blue Carbon Storage -- Forest Cover Change Matrix -- Forest Cover of Purulia District -- Jungle Mahal -- Forest Cover Change Matrix -- Forest Cover of South 24 Parganas District -- Mangroves and Marsh Vegetation -- Faunal Assemblages -- Pristine Forests -- Forest Cover Change Matrix -- Forest Cover of Uttar Dinajpur District -- Pocket Forest -- Forest Cover Change Matrix -- Forest Cover of Dakshin Dinajpur District -- Myths-History -- Bioeconomy Model -- Forest Cover Change Matrix -- Summary -- References -- Chapter 3: Forest Stands - Case Studies -- Forest Management of Bankura District -- Joypur and Beliapore Forests, Bankura District -- Ground Water Table -- Forest Scenario -- Floral Diversity -- Elephant Corridor -- Soil Characteristics -- Soil Analysis and Results -- Discussion -- Remarks -- Garh Jangal and Aduria Forest of Bardhaman Forest Division -- Ground Water Table -- Divisional Forest Scenario -- Soil Characteristics -- Soil Analysis and Results -- Discussion -- Impact of Potassium on Forest Vegetation -- Results and Discussion -- Remarks -- Summary -- References -- Chapter 4: Statistical Analysis of Forest Soil Properties -- Statistical Analysis -- Forest Floor Substrate Soils -- Relationships of the Soil Nutrients -- Analysis and Results -- Discussion -- Statistical Prediction of Nitrogen Availability -- pH, Salinity, and Organic Carbon Relationships of the Marsh Sediments -- Precision Test for Sediment Sampling -- Results and Discussion -- Random Sampling Without Replacement -- Remarks -- Bulk Density of Forest Soils -- Remarks -- Paired T-Test for Organic Carbon and Nitrogen Stocks -- Distribution Pattern of Organic Carbon and Nitrogen Stocks within the Soil Profile. Paired T-Test -- Paired T-Test of Organic Carbon Stocks -- Paired T-Test for Nitrogen Stocks -- Remarks -- Summary -- References -- Chapter 5: Forest Vegetation Sampling and Analysis -- Random Sampling and Analysis -- Data Sampling in Quadrats for Garh Jangal and Aduria Forests -- Data Analysis and Results -- Data Sampling in Quadrats for the 14 Sample Spots in 11 Districts -- Data Analysis and Results -- Data Sampling in Quadrats for the 27 Sample Spots from 19 Districts of West Bengal -- Remarks -- Timber and Non-timber Plant Species of Garh Jangal -- Remarks -- Pocket Forest Tree Inventory -- Tree Inventory of a Pocket Forest in Urban Zone -- Remarks -- Measurements of Similarity Index -- Similarity index Determination of Tree Species of Chilapata and Mendabari Forests of Dooars -- Remarks -- Similarity Determination Using Methods of Correlation Coefficient -- Remarks -- Percentage Similarity -- Morisita Index of Similarity -- Morisita-Horn Index of Similarity -- Horn's Index of Similarity -- Preference of Choices Similarity indices Measures -- Biomass stock and Carbon Content Estimation -- Estimation of Biomass stock and Carbon Content of Dead Wood -- Estimation of Root Biomass of Dead Wood -- Estimation of Biomass of Branches and Foliage of the Dead Wood -- Remarks -- Wood Volume Determination -- Remarks -- Summary -- References --

Chapter 6: Estimation of Biodiversity Indices and Species Richness -- Estimation of Biodiversity and Species Diversity Indices -- Diversity Index and Species Richness Estimation -- Determination of Species Diversity -- Results -- Results -- Relative Abundance of Species Diversity -- Results -- Estimation of Variance of Diversity -- Species Richness Index -- Remarks -- Estimation of Diversity Index in Sunderbans -- Remarks -- Assessing Diversity Indices for the Macroinvertebrates -- Depositional Environment. Materials and Methods -- Determination of Species Diversity Indices -- Results and Discussion -- Shannon-Wiener Index -- Margalef Diversity Index -- Magurran Diversity Index -- Reformulating Margalef and Magurran Diversity Indices -- Remarks -- Relative Abundance Determination of Elephants in Elephant Corridors -- Remarks -- Percentage Similarity Estimation at Kulik Bird Sanctuary -- Remarks -- Distance Coefficients Estimation of Wildlife in Dooars -- Remarks -- Summary -- References -- Chapter 7: Statistical Measures of Human-Wildlife Conflict and Anthropogenic Interferences -- Human-Wildlife Conflict -- Human-Elephant Conflict -- Results and Discussion -- Remarks -- Man-Tiger Conflict -- Remarks -- Natural Habitat of Wildlife -- Correlation of the Number of Tigers in Two Tiger Zones -- Estimation of Number of Deer (*Axis axis*) for Accommodation -- Goodness of Fit Tests for Deer in Deer Hubs -- Anthropogenic Interferences -- Human Entries in the Forests of the Sunderbans -- Tiger Attack Cases in the Sunderbans -- Remarks -- Occupational Hazards -- Leaf Puckers of Mayur Jharna Elephant Reserve -- Results and Discussion -- Proportion of Shared Leaves -- Ratio Data -- Remarks -- Summary -- References -- Index.
