



# Review Article

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## Remote Sensing and GIS Application in Agriculture and Natural Resource Management



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### Abstract

Agriculture plays a vital role in every nation economy every nation. It represents a substantial trading industry for an economically strong country. Remote sensing and Geographic information system used to analyze and visualize agricultural environments has proved to be very beneficial to farming community as well as industry. In this paper I tried to overview application of remote sensing and geographic information systems in agriculture and natural resource management. Reliable and timely information on types of crops grown, their area and expected yield is importance for government for agriculturally based country. Applications of different remote sensing techniques are important for crop monitoring, crop condition assessment and yield estimation for sustainability of agriculture and natural resources. The spectral information is the important aspect of remote sensing data for crop modeling and it is strongly related with canopy parameters which are the representative of crop health and crop growth stages. Remote sensing and GIS can also be used very effectively in land use / land cover analysis as well as damage assessment because of drought, floods and other extreme weather events. Information on meteorology and vegetation are the two major important inputs into agricultural meteorology Applications of remote sensing technologies are important and effective method to identify pest-infested and disease. It is one of the effective tools for assessing and monitoring the water resources.

**Keywords:** Crop inventory, Flood monitoring, Nutrient, Geographical information system, Remote sensing

### Introduction

Agriculture plays a vital role in every nation economy. It represents a substantial trading industry for an economically strong country. Production of food in a cost-effective manner is the essential goal of every farmer, large-scale farm manager and regional agricultural agency. Remote sensing and Geographic information system used to analyze and visualize agricultural environments has proved to be very beneficial to farming community as well as industry. It plays great role in agriculture throughout the world by helping farmers in increasing production, reducing costs and managing their land more efficiently. Geographic information systems (GIS) has been widely applied and been recognized as effective and powerful tool in detecting land cover and land use change [1]. Using remote sensing and GIS are important to understand the health of crop, extent of infestation, potential yield and soil conditions. It applied to explore agricultural applications such as crop identification, area estimation, crop condition assessment, soil moisture estimation, yield estimation, agriculture water management, agro meteorological etc.

Applications of remote sensing in agriculture including major important things such as; biomass and yield estimation, vegetation vigor and drought stress monitoring, assessment of

crop phenological development, crop acreage estimation and cropland mapping, mapping of disturbances and land use land cover changes in addition to precision agriculture and irrigation management [2]. GIS based mapping application can help to identify location of crops growing across the country and to adapt different variables, monitor the health of individual crops, estimate yields from a given field, and maximize crop production. By using land-use and primary food crop statistics, along with data collected by different tools including mobile devices able to identify areas in need and underlying causes of food insecurity. GIS is an instrumental in the efforts to end global hunger and it is an integral part of automated field operations.

Using data collected from remote sensors, and from sensors mounted directly on farm machinery, farmers have improved decision-making capabilities for planning their cultivation to maximize yields. Previous crop yields, terrain specifics, organic matter content, pH, moisture, and nutrient levels of the soil all add in proper preparation for precise farming. Combine harvesters equipped with GPS tracking units can measure crop yields along with crop quality values like plant water content and chlorophyll levels in real time and at the exact location in the field from which they are harvested. Rapidly emerging

# Remote Sensing Gis Natural Res

**National Conservation Training Center  
(U.S. Fish and Wildlife Service)**



## **Remote Sensing Gis Natural Res:**

Remote Sensing and GIS for Natural Resource Management Clare H. Power, L. J. Rosenberg, I. Downey, 1996 The global demand for environmental status and impact monitoring has resulted in an increasing need for resource managers and practitioners of remote sensing and GIS technology to work closely together In catering for this need this publication reports on a one day technical workshop which brought together both users and practitioners of remote sensing and GIS in natural resource management in order to gain awareness of other activities and to discuss the issues problems and solutions they have found

**Remote Sensing of Natural Resources** Guangxing Wang, Qihao Weng, 2013-07-12 Highlighting new technologies Remote Sensing of Natural Resources explores advanced remote sensing systems and algorithms for image processing enhancement feature extraction data fusion image classification image based modeling image based sampling design map accuracy assessment and quality control It also discusses their applications for evaluation of natural resources including sampling design land use and land cover classification natural landscape and ecosystem assessment forestry agriculture biomass and carbon cycle modeling wetland classification and dynamics monitoring and soils and minerals mapping The book combines review articles with case studies that demonstrate recent advances and developments of methods techniques and applications of remote sensing with each chapter on a specific area of natural resources Through a comprehensive examination of the wide range of applications of remote sensing technologies to natural resources the book provides insight into advanced remote sensing systems technologies and algorithms for researchers scientists engineers and decision makers

**Geospatial Technology for Natural Resource Management** Shruti Kanga, Gowhar Meraj, Suraj Kumar Singh, Majid Farooq, M. S. Nathawat, 2024-11-20 This book is essential for anyone interested in understanding and implementing sustainable resource development strategies as it covers the crucial first stage of assessing resource availability and condition along with the use of modern geospatial technologies such as remote sensing GIS and GPS for surveying mapping and monitoring various resources for global environmental protection and sustainable development The first step in developing a sustainable resource strategy is assessing the availability and condition of resources This involves evaluating baseline levels identifying trends and understanding their consequences Mitigation policies are then developed based on this assessment Modern geospatial technologies like Remote Sensing RS Geographic Information Systems GIS and Global Positioning Systems GPS offer powerful tools for surveying mapping and monitoring both renewable and nonrenewable resources These technologies support global environmental protection disaster management and sustainable development by providing repetitive and global data GPS provides accurate geographic coordinates while GIS allows visualization analysis and decision making through spatial data enabling the study of complex environmental and natural resource challenges at various scales

*The GIS Applications Book* William J. Ripple, 1994 Introdu o s aplica es em GIS compreendendo modelagem e avalia o recursos naturais ecologia da paisagem vida selvagem uso da terra e diversidade biol

gica      **Remote Sensing of Water Resources, Disasters, and Urban Studies** Ph.D., Prasad S. Thenkabail, 2015-10-02 This book is the most comprehensive documentation of the scientific and methodological advances that have taken place in understanding remote sensing data methods and applications over last 50 years In a very practical way it demonstrates the experience utility methods and models used in studying a wide array of water applications There are more than 100 leading global experts in the field contributing to this work      *Advances in Environmental Sustainability, Energy and Earth Science* Pankaj Pathak, Sadia Ilyas, Rajiv Ranjan Srivastava, Javid Dar, Subashree Kothandaraman, 2024-11-25 This book presents the proceedings of the 1st International Conference on Advances in Environmental Sustainability Energy and Earth Science AESEE 2024 held on March 14 16 in Amaravati Andhra Pradesh India The conference offers a platform to discuss frontier areas of research and disseminate scientific information in the fields of environmental sustainability energy and earth science and it also offers an opportunity to learn and connect with the leading experts from academia industry policy makers scientists and other professionals These proceedings report on environmental challenges and the latest sustainable solutions by discussing biodiversity climate action water resources biogeochemistry biotechnology and perspectives from diverse fields The book outlines cutting edge solutions like carbon sequestration strategies and smart agricultural practices emphasizing the role of innovation in achieving sustainability goals Particular attention is given to green technologies and applications of biotechnology for pollution prevention The inclusion of topics such as Women in Science Engineering underscores the importance of diversity in environmental research The book not only outlines scientific advancements but also recognises and celebrates the contributions of underrepresented groups promoting inclusivity in the pursuit of sustainable solutions for the future This book has a broad appeal and students researchers professionals and policymakers interested in the fields of environmental sustainability energy and earth science will find it a valuable account      *Manual of Remote Sensing, Remote Sensing for Natural Resource Management and Environmental Monitoring* Susan L. Ustin, 2004-05-03 Part of an ongoing series of manuals covering the range of applications of remotely sensed imagery Volume 4 addresses the use of this technology in natural resource management and environmental monitoring Comprehensive authoritative and up to date it covers terrestrial ecosystems aquatic ecosystems and agriculture ecosystems as well as future directions in technology and research      **Remote Sensing and GIS for Natural Resource Management** Bir Abhimanyu Kumar, 2007 With reference to India      Sustainable Development and Geospatial Technology Chetan Sharma, Anoop Kumar Shukla, Shray Pathak, Vijay P. Singh, 2024-09-26 This two volume set showcases the various ways in which geospatial technology can be used to achieve sustainable development goals across different sectors such as urban planning natural resource management agriculture disaster management and energy management The books provide insights into the potential of geospatial technology in promoting sustainable development practices and addressing challenges related to climate change environmental degradation and socio economic development Both volumes together are a comprehensive guide that showcases the potential

of geospatial technology in promoting sustainable development practices across different sectors and will serve as an essential resource for professionals policymakers researchers and students interested in sustainable development and geospatial technology Volume 2 explores practical applications insightful case studies and emerging trends within the dynamic intersection of sustainable development and geospatial technology Delving into the critical domain of water resources and agriculture it scrutinizes the application of geospatial tools in river basin management integrated water resources management IWRM sustainable agriculture and precision agriculture The volume then shifts its focus to disaster management energy and the future encompassing geospatial data science for disaster resilience Earth observation for sustainable energy management and diverse case studies that highlight the impact of geospatial technology on sustainable development Moreover it ventures into environmental monitoring and analysis discussing topics like land use planning climate change mitigation environmental monitoring technology and socioeconomic inequalities *Geospatial Technologies for Effective Land Governance* El-Ayachi, Moha, El Mansouri, Loubna, 2018-10-12 Land as a fundamental resource in regional development provides major opportunities for farming housing urban planning and financing In order to meet the requirements of the new era every state has developed and implemented a series of policies according to its national specificities and to the international regulations and trends *Geospatial Technologies for Effective Land Governance* is a pivotal reference source that provides vital research on the application of the use of GNSS remote sensing and GIS While highlighting topics such as crop management multispectral images and irrigation this publication explores land administration encompassing both cadastral systems and land registration as well as the methods of land governance strategies This book is ideally designed for researchers agricultural professionals engineers environmentalists land developers educators students and policymakers seeking current research on land and land based conflicts in urban and rural communities **Catalog of Training** National Conservation Training Center (U.S. Fish and Wildlife Service), 2007

**Spatial Information Technology for Sustainable Development Goals** Dilip Kumar, R.B. Singh, Ranjeet Kaur, 2019-08-08 This textbook aims to develop a scientific knowledge base on spatial information technology to communicate the United Nations Sustainable Development Goals SDGs among students researchers professionals and laymen The book improves understanding of the spatial database and explains how to extract information from this for planning purposes To enhance the knowledge of geoscientists and environmentalists the book describes the basic fundamental concepts to advance techniques for spatial data management and analysis and discusses the methodology The Geographic Information System GIS remote sensing and Global Positioning System GPS are presented in an integrated manner for the planning of resources and infrastructure The management of these systems is discussed in a very lucid way to develop the reader's skills The proper procedure for map making and spatial analysis are included along with case studies to the reader Where the first part of the book discusses the conceptual background the second part deals with case studies

using these applications in different disciplines The presented case studies include land use agriculture flood watershed characterization and infrastructure assessment for the Sustainable Development Goals

**Spatial Diversity and Dynamics in Resources and Urban Development** Ashok K. Dutt, Allen G. Noble, Frank J. Costa, Sudhir K. Thakur, Rajiv Thakur, Hari S. Sharma, 2015-10-15 This double volume work focuses on socio demographics and the use of such data to support strategic resource management and planning initiatives Papers go beyond explanations of methods technique and traditional applications to explore new intersections in the dynamic relationship between the utilization and management of resources and urban development International authors explore numerous experiences characteristics of development and decision making influences from across Asia and Southeast Asia as well as recounting examples from America and Africa Papers propound techniques and methods used in geographical research such as support vector machines socio economic correlates and travel behaviour analysis In this volume the contributions examine issues such as natural resource and environmental management livelihoods issues in the context of climate change land markets and land trusts adaptive management of wildlife sanctuaries ground water scarcity flood hazards and flood plain management non conventional energy resources community forestry and management and land use and land cover change The significance of these topics lie in the pace and volume of change as is reflected through continued development within established fields of inquiry and the introduction of significantly new approaches during the last decade Readers are invited to consider the dynamics of spatial expansion of urban areas and economic development and to explore conceptual discussion of the innovations in and challenges on urbanization processes urban spaces themselves and both resource management and environmental management Together the two volumes contribute to the interdisciplinary literature on regional resources and urban development by collating recent research with geography at its core Scholars of urban geography human geography urbanism and sustainable development will be particularly interested in this book

**Digital Soil Mapping**, 2006-12-18 The book compiles the main ideas and methodologies that have been proposed and tested within these last fifteen years in the field of Digital Soil Mapping DSM Beginning with current experiences of soil information system developments in various regions of the world this volume presents states of the art of different topics covered by DSM Conception and handling of soil databases sampling methods new soil spatial covariates Quantitative spatial modelling Quality assessment and representation of DSM outputs This book provides a solid support to students researchers and engineers interested in modernising soil survey approaches with numerical techniques It is also of great interest for potential soil data users A new concept to meet the worldwide demand for spatial soil data The first compilation of ideas and methodologies of Digital Soil Mapping Offers a variety of specialities soil surveying geostatistics data mining fuzzy logic remote sensing techniques Geographical Information Science Written by 82 researchers from 13 different countries

**Surface and Groundwater Resources Development and Management in Semi-arid Region** Chaitanya B. Pande, Manish Kumar, N. L. Kushwaha, 2023-05-19 This book explains the

challenges for efficient sustainable surface and groundwater development and management with the focus on India and other countries providing a stable output presentation by using machine learning data mining methods and modeling. It is a combination of machine learning modeling, Google Earth Engine, climate data modeling, remote sensing and GIS techniques, surface water modeling, AHP modeling, groundwater quality analysis, aquifer mapping, land use and land cover analysis, forecasting of water and rainfall, and so on. Its use to sustainable development planning and management of groundwater purposes in India and other countries. The main purpose of this book will develop better outlines for the development of surface and groundwater and management in the semi arid region climate which supports the Sustainable Development Goals (SDGs) in India especially on sustainable surface water and groundwater resources management. This book provides a multidisciplinary overview for the faculty members, administrators, scientists, policymakers, social science and professionals involved in the various aspects of sustainable groundwater development planning and management.

GIScience for the Sustainable Management of Water Resources Gowhar Meraj, Shruti Kanga, Majid Farooq, Suraj Kumar Singh, Sudhanshu, 2022-12-22. Water is one of the most critical resources of nature that is necessary for sustaining life for all living things. This volume discusses in detail a selection of geospatial approaches, tools and techniques for understanding the root causes behind the degradation of our water resources. Satellite remote sensing provides essential data for mapping water resources, hydrology, flux measurement, monitoring drought and flood inundation. With an abundance of informative case studies, this volume discusses the use of the satellite remote sensing and GIS based systems for managing urban storm water for flood and soil erosion management, for mapping groundwater zones for crop production including measuring soil moisture and aridity for gauging the impact of climate change for evaluating glacier change dynamics for assessing the impact of urban growth on water resources for measuring the degradation of rivers and more.

*Catalog of Training* U.S. Fish and Wildlife Service, 2002. National Conservation Training Center Catalog of Training National Conservation Training Center (U.S. Fish and Wildlife Service), **Urban Hydrology, Watershed Management and Socio-Economic Aspects** Arup K. Sarma, Vijay P. Singh, Suresh A. Kartha, Rajib K. Bhattacharjya, 2016-10-25. The book brings together high quality research articles on advanced hydrological analysis, advanced computational methods and the ecological and sociological aspects of urban watershed management under one umbrella. The rapid pace of urbanization not accompanied by any farsighted holistic plan has reduced many cities in the developing world into multi hazard areas. The most perceptible consequence of urbanization is the change in land use and land cover which in turn impacts hydrological systems. Accordingly, scientific studies on urban hydrology with due emphasis on ecological and sociological aspects under changing climate are vital to the appropriate design of urban landscapes and civil infrastructure works. This book addresses precisely these issues offering a useful guide for environmentalists, hydrologists and a broad range of socio economic scientists exploring the environmental vulnerabilities arising from urbanization.

**Geospatial Technologies in Land Resources Mapping,**

**Monitoring and Management** G. P. Obi Reddy, S. K. Singh, 2018-09-11 This book offers an overview of geospatial technologies in land resources mapping monitoring and management It consists of four main sections geospatial technologies principles and applications geospatial technologies in land resources mapping geospatial technologies in land resources monitoring and geospatial technologies in land resources management Each part is divided into detailed chapters that include illustrations and tables The authors from leading institutes such as the ICAR NBSS LUP IIT B NRSC ICRISAT share their experiences and offer case studies to provide advanced insights into the field It is a valuable resource for the scientific and the teaching community extension scientists at research institutes and agricultural universities colleges as well as those involved in planning and managing land resources for sustainable agriculture and livelihood security



Remote Sensing Gis Natural Res: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Remote Sensing Gis Natural Res : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Table of Contents Remote Sensing Gis Natural Res**

1. Understanding the eBook Remote Sensing Gis Natural Res
  - The Rise of Digital Reading Remote Sensing Gis Natural Res
  - Advantages of eBooks Over Traditional Books
2. Identifying Remote Sensing Gis Natural Res
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Remote Sensing Gis Natural Res
  - User-Friendly Interface
4. Exploring eBook Recommendations from Remote Sensing Gis Natural Res
  - Personalized Recommendations
  - Remote Sensing Gis Natural Res User Reviews and Ratings
  - Remote Sensing Gis Natural Res and Bestseller Lists
5. Accessing Remote Sensing Gis Natural Res Free and Paid eBooks
  - Remote Sensing Gis Natural Res Public Domain eBooks
  - Remote Sensing Gis Natural Res eBook Subscription Services
  - Remote Sensing Gis Natural Res Budget-Friendly Options
6. Navigating Remote Sensing Gis Natural Res eBook Formats
  - ePub, PDF, MOBI, and More
  - Remote Sensing Gis Natural Res Compatibility with Devices
  - Remote Sensing Gis Natural Res Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Remote Sensing Gis Natural Res
  - Highlighting and Note-Taking Remote Sensing Gis Natural Res
  - Interactive Elements Remote Sensing Gis Natural Res
8. Staying Engaged with Remote Sensing Gis Natural Res

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Remote Sensing Gis Natural Res
9. Balancing eBooks and Physical Books Remote Sensing Gis Natural Res
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Remote Sensing Gis Natural Res
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Remote Sensing Gis Natural Res
    - Setting Reading Goals Remote Sensing Gis Natural Res
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Remote Sensing Gis Natural Res
    - Fact-Checking eBook Content of Remote Sensing Gis Natural Res
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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