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Dryland Farming Crops Techniques For Arid Regions

**Khawar Jabran, Singarayer
Florentine, Bhagirath Singh Chauhan**

Dryland Farming Crops Techniques For Arid Regions:

Enhancing Resilience of Dryland Agriculture Under Changing Climate Anandkumar Naorem, Deepesh

Machiwal, 2023-03-09 This contributed volume describes management practices based on interdisciplinary and convergence science approaches from different disciplines of agricultural science to enhance the resilience of dryland agriculture. The main focus of this book is to address the current issues and trends along with future prospects and challenges in adopting salient agricultural management practices in drylands globally under a climate change scenario. Climate change and global warming have profound repercussions on increasing frequency, severity, and duration of droughts and/or floods which may have implications for future productivity of dryland agriculture e.g. more water shortages or abundances and high or low runoff rates, diminished crop yields, and reduced water productivity. In past few years, many technological advancements and management strategies have been evolved to tackle the climate-induced risks of dryland agriculture considering interdisciplinary and convergence approaches that integrate knowledge from multi-disciplines. This book is an attempt to bridge the gap in literature by unraveling controversies and characteristics of dryland ecosystems under the changing climate and dealing with detailed procedures of applying the advanced practices adapted to climate change for management of dryland agriculture. This edited book is of interest to ecologists, economists, environmentalists, geologists, horticulturalists, hydrologists, soil scientists, social scientists, natural resource conservationists, and policy makers dealing with dryland agriculture. This book offers a broad understanding of dryland agriculture and assists the reader to identify both the current as well as the probable future state of dryland agriculture in a global context.

Forestry Technologies - A Complete Value Chain Approach K. T. Parthiban, R. Seenivasan, 2017-01-01 The book on Forestry Technologies: A Complete Value Chain Approach has been designed to cater to the needs of the stakeholders by judiciously incorporating the recent technologies and research outputs available in various sectors of institutions. The book has four major themes viz. basic and strategic technology, production technology, processing and value addition technology, and consumption technology. The basic and strategic technology incorporated seven chapters which include basic information and the recent scientific applications such as nano technology and urban forestry technology. The production technology incorporated 16 chapters that includes all the recent developments such as mini clonal technology, high yielding short rotation variety, land development, and precision silvicultural technology and multifunctional agroforestry. Processing and value addition technology incorporated 11 chapters and the consumption technology incorporated five chapters which include the recent developments in processing, value addition, and the associated supply chain process. In a holistic perspective, the current book will serve as a readymade reference material to the practicing foresters, scientific professionals, wood-based industries, policy makers, forestry students, financial and other academic and research institutions.

Agroecology, Ecosystems and Sustainability in the Tropics G. Poyyamoli, 2017-06-26 Tropical ecosystems are some of the most biologically and ecologically diverse in the world.

Traditional local agroecosystems in the tropics reflect this diversity and provide excellent examples of how nature can be used as the model for designing and managing sustainable agroecosystems. This book brings together such examples. Using an agroecological approach, the collection of chapters demonstrates how agroecology must simultaneously be a science, a practice, and a movement for social change towards a paradigm of sustainability that engages all parts of the food system from the field to the table. Chapter contributors were selected from multiple countries and backgrounds, providing a valuable diversity of approaches and knowledge systems, and the interaction of these systems gives this book the important transdisciplinarity that has become a key component of agroecology. Working across disciplines and knowledge systems is necessary in order to link the multiple components of food systems that promote effective change. As food systems return to the diversity, complexity, and resilience they once had, it is collections of experiences as presented in this book that provide examples of the path we must be on.

Steve Gliessman, Professor Emeritus of Agroecology, University of California, Santa Cruz, USA

Dry Land Crops Yves Earhart, 2025-02-23 In the face of escalating climate change, *Dry Land Crops* explores the critical role of drought-resistant agriculture in ensuring global food security. It highlights how certain plants, through unique physiological and genetic mechanisms, can thrive in arid conditions. Understanding these mechanisms is crucial, considering that agriculture has historically relied on water-intensive methods, often unsustainable in dry environments. The book reveals actionable strategies for mitigating the impacts of climate change on agricultural systems, emphasizing the necessity of shifting towards crops inherently adapted to water-limited conditions. The book progresses by first introducing the diverse forms of drought resistance, from morphological adaptations to efficient water use. It then delves into the genetic basis of drought tolerance, exploring how molecular biology can accelerate the breeding of drought-resistant varieties. Major sections cover examples of drought-resistant crops, including cultivation techniques and nutritional value. The book uniquely integrates scientific findings with practical experience, making it a valuable resource for farmers, policymakers, and researchers alike. It connects environmental science with sustainable land management, economics, and sociology.

Agrotechnology for Dryland Farming 2nd. Revised Ed. A.M. Dhopte, 2017-01-01 It is known that dryland farming is not remunerative due to several constraints. Location-specific technologies have been evolved for yield stabilization in dryland farming and conservation of fragile ecosystems by sustainable use of soil and water resources. Drought and flood situations are experienced somewhere in the country in spite of plentiful resources of water. Unshining hours but poverty among farmers still exists. This is a point of serious concern. Agrotechniques are alone the answer for low productivity of 0.8 t/ha of 90% rainfed farming. To feed over one billion growing population of the country, there is a need to increase the productivity to 1.5 t/ha by 2010 AD. This book deals with seed, soil, watersheds, crop, weed, and nutrient management; use of weather forecast measures to save crops under abiotic stresses like drought and flooding; selection of crops and variety; reclamation of degraded land; organic recycling; agro-meteorological approaches; water requirement; early harvest on physiological maturity; agro-hydro

modelling and suitable medicinal and aromatic crops to make dry farming remunerative for welfare of common farmers This is the first comprehensive book where large number of agro techniques are incorporated Chapters are written by eminent scientists of national repute who have devoted their life time to solve probable problems of dryland Agro techniques can well be adopted with ease by farmers through extension agencies to avoid bankruptcy Book includes all relevant aspects of rainfed farming and is therefore a valuable addition in Dryfarming and meets the expectations of all those interested in rainfed farming in the country and abroad Long outstanding demand has thus fulfilled with this book The novel approach of editor has made the readers task quick and minimized their efforts by compiling all agro techniques together at one place for benefit of farmers

Challenges and Strategies of Dryland Agriculture S.C. Rao,2011-01-01 The world has made remarkable progress in maintaining adequate food supplies during the past quarter century by introducing yield increasing technologies such as better genetics crop protection products and more efficient use of fertilizers and irrigations Far more people depend on irrigation in the modern world than during the times of ancient Sumeria The spread of irrigation has been the key factor in increasing global crop yields But future scarcity present the single biggest threat to future food production The shift of water from agriculture to the growing cities and industry almost certainly will impact global food production This means that dryland agriculture will be increasingly important in meeting food requirement for the growing population Advances in plant genetics and agronomic conservation technologies when considered in concert continue to provide the greatest opportunities to achieve sustainability and profitability in dryland agriculture and will continue to be the focus of the ARS research program The ARS is please to join the crop Science Society of America and international center for Agriculture Research in Dry Areas ICARDA in sponsoring a symposium Challenges and strategies for Dryland Agriculture at the Trisocieties Annual Meeting in November 2002 at Indianapolis IN This special publication contains an impressive series of paper by international group of experts on dryland agricultural production conservation and policy The principles philosophies and technologies presented in this publication have the potential to contribute to improve food security and livelihoods for the people in dryland regions of the world

Handbook of Nature-Based Drought Solutions Saeid Eslamian,Faezeh Eslamian,2025-06-27 Handbook of Nature Based Drought Solutions covers the latest research on successful sustainable solutions for the efficient water resources management to overcome the drought and water scarcity problems The book centers around the realms of drought modeling green infrastructure planning and the utilization of remote sensing to evaluate dissect and oversee drought occurrences It delves into subjects such as risk mitigation strategic planning policy considerations and the ecological restoration of degraded lands after drought The use of case studies and novel methodologies including soft computing technique application will help the reader gain a deeper knowledge in understanding predicting and mitigating hydrometeorological hazards Offers fundamental information on nature based techniques to drought management Includes case studies and methods for the successful implementation of ecological restoration of

degraded lands Covers both traditional and novel techniques for the efficient water resources management to overcome drought and water scarcity problems **Water and Agricultural Sustainability Strategies** Manjit S Kang,2010-03-25 According to the United Nations 77 million people are expected to face water shortage by 2025 if people continue to use water at the current rate More water than available would be needed to grow the worlds food during the next decade As a result of scarcity of water global annual food production losses could reach 350 million tons by 2025 Di Agriculture in Dry Lands I. Arnon,2012-12-02 Throughout history man has by over use consistently reduced the productive capacity of dry lands This degradation of one third of the land area of the globe is unfortunately increasing In recent years world interest has turned to the problems of pollution of the environment and the impending food shortage as world population grows explosively Thus the attention of international and other agricultural bodies has turned to the need for preserving and developing more effectively the agricultural potential of these areas This book provides a comprehensive review of present knowledge of the agriculture of dry lands with special emphasis on measures for conserving their natural resources Management practices are described which aim at optimizing productivity of rainfed and irrigated agriculture without adverse effects on sustainability Land use in the dry regions and its evolution throughout history is described and analysed and the lessons to be learnt from destructive technologies are stressed In particular current proposals for an alternative agriculture are discussed and their justification is questioned This is a generalist work which specialists can also find interesting not only in their own discipline but as a concise way of acquainting themselves with the state of the art in associated fields Increasing specialisation with each discipline using its own vocabulary leads inevitably to communication problems and the need for multi disciplinary teams makes inter discipline communication indispensable **Crop Protection Under Changing Climate** Khawar Jabran,Singarayer Florentine,Bhagirath Singh Chauhan,2020-08-04 This book addresses the impact of important climatic changes on plant pests including weeds diseases and insect pests and their interactions with crop plants Anthropogenic activities have seriously impacted the global climate As a result carbon dioxide CO₂ and temperature levels of the earth are on a continuous rise The global temperature is expected to increase by a 3 C or more by the end of this century The CO₂ concentration was below 300 parts per million ppm before the start of the industrial era however recently it has exceeded 400 ppm This is highest ever in human history Other than global warming and elevated CO₂ concentrations anthropogenic activities have also disturbed the global water cycle ultimately impacting the quantity and distribution of rainfall This has resulted in drought conditions in many parts of the world Global warming elevated CO₂ concentration and drought are considered the most important recent climatic changes that are impacting global ecosystems and human societies Among other impacts the effects of climatic changes on pests pest crop interactions and pest control are important with relevance to global food security and hence require immediate attention by plant scientists This book discusses innovative and the most effective pest control methods under an environment of changing climate and elaborates

on the impact of drought on plant pests and their control *Ecological Modeling For Mitigating Environmental And Climate Shocks: Achieving The Unsds* Hock Lye Koh,Su Yean Teh,2021-07-08 Lakes wetlands and coastal regions provide essential services critical to the survival of human wildlife and by and large the ecosystems which are constantly threatened by anthropogenic activities environmental degradation and climate change Marine resources particularly mangroves and corals are vulnerable to coastal developments including coastal reclamation and human settlements that discharge large quantities of wastes into the seas Climate change impacts such as increased salt intrusion and sea level rise may additionally induce regime shifts detrimental to these delicate ecosystems And the warmer climate has increased the frequency duration and intensity of catastrophic coastal disturbances implicating profound uncertainty to the sustainability of coastal infrastructures and resources essential for human populations This book is written for students researchers and practitioners pursuing teaching and research related to sustainable development and the United Nations Sustainable Development Goals UNSDGs It provides a unique approach on sustainable development viewed from the perspectives of providing solutions via model simulation to solve sustainable development issues related to human population growth and impacts due to climate change It provides the scientific knowledge and technical skills necessary to achieve valuable insights for mitigating the predicted adverse impacts and for developing sustainable development strategies incorporating climate and environmental adaptations

Management of Soil Problems Khan Towhid Osman,2018-05-03 Soils are neither good nor bad but some have inherent or acquired characteristics that may or may not suit our intended use Unsuitable characteristics are considered to be soil problems soil constraints or soil limitations Only twelve percent of global land is right for agricultural production without much limitation Some soils have severe limitations for crop production These soils are so called problem soils Many of them do not have enough fertility to be productive some are arid and saline some are very sandy and dry and some are wet and waterlogged for most of the growing season The global demand for food wood fuel fiber medicine and other plant products for the 7.2 billion current world population has created such an immense pressure on global soil resources that even the most fertile soils are losing their productive capacity We are being compelled to bring more and more unsuitable or marginally suitable soils under cultivation Unless innovative and integrated soil crop and environmental management practices are adopted for their improvement and sustainable use further degradation is inevitable This book *Management of Soil Problems* identifies the problems and discusses management options in a smooth and reader friendly style It will be useful for students and professionals of soil science agriculture forestry geography and environmental sciences **Water and Cereals in**

Drylands Parviz Koochafkan,Bobby Alton Stewart,2008 First Published in 2008 Routledge is an imprint of Taylor Francis an informa company **Sustainable and Innovative Vegetable Production in times of Climate Change** Zafar Iqbal,Muhammad Akbar Anjum,Sezai Ercisli,Saeed Rauf,2025-07-22 This contributed book delves into the cutting edge techniques and sustainable practices essential for vegetable production in times of climate change It offers a comprehensive

exploration of topics such as CRISPR based gene tweaking hydroponic systems organic farming edible landscaping indoor vegetables production techniques vegetable grafting protected olericulture value addition and postharvest management The book covers insights into the nutritive and therapeutic value of vegetables innovative nursery management and the latest trends in fresh cut vegetables The chapters contributed by world renowned experts address critical questions about food security environmental sustainability and advanced cultivation methods This book is a must read for anyone looking to enhance their understanding of modern vegetable production This book is an invaluable resource for agriculturists horticulturists food scientists plant breeders university scholars and industry professionals It provides knowledge on improving practices through eco friendly techniques Whether you are a researcher or an avid gardener this book will equip you with the latest research and practical applications to thrive in the evolving field of olericulture **Farming While**

Black Leah Penniman, 2018-10-30 Recipient of the 28th Heinz Awards for the Economy Leah Penniman James Beard Foundation Leadership Award 2019 Leah Penniman Choice Reviews Outstanding Academic Title An extraordinary book part agricultural guide part revolutionary manifesto VOGUE Named a Best Book on Sustainable Living and Sustainability by Book Riot In 1920 14 percent of all land owning US farmers were black Today less than 2 percent of farms are controlled by black people a loss of over 14 million acres and the result of discrimination and dispossession While farm management is among the whitest of professions farm labor is predominantly brown and exploited and people of color disproportionately live in food apartheid neighborhoods and suffer from diet related illness The system is built on stolen land and stolen labor and needs a redesign Farming While Black is the first comprehensive how to guide for aspiring African heritage growers to reclaim their dignity as agriculturists and for all farmers to understand the distinct technical contributions of African heritage people to sustainable agriculture At Soul Fire Farm author Leah Penniman co created the Black and Latinx Farmers Immersion BLFI program as a container for new farmers to share growing skills in a culturally relevant and supportive environment led by people of color Farming While Black organizes and expands upon the curriculum of the BLFI to provide readers with a concise guide to all aspects of small scale farming from business planning to preserving the harvest Throughout the chapters Penniman uplifts the wisdom of the African diasporic farmers and activists whose work informs the techniques described from whole farm planning soil fertility seed selection and agroecology to using whole foods in culturally appropriate recipes sharing stories of ancestors and tools for healing from the trauma associated with slavery and economic exploitation on the land Woven throughout the book is the story of Soul Fire Farm a national leader in the food justice movement The technical information is designed for farmers and gardeners with beginning to intermediate experience For those with more experience the book provides a fresh lens on practices that may have been taken for granted as ahistorical or strictly European Black ancestors and contemporaries have always been leaders and continue to lead in the sustainable agriculture and food justice movements It is time for all of us to listen A moving and powerful how to book for Black farmers to reclaim

the occupation and the contributions of the BIPOC community that introduced sustainable agriculture BookRiot com Leah Penniman is opening the door for the next generation of farmers CBS This Morning Methods and Tools for Drought Analysis and Management Giuseppe Rossi, Teodoro Vega, Brunella Bonaccorso, 2007-07-26 Implementation of effective drought management policies requires both advanced technologies and appropriate methods Monitoring and forecasting systems practical tools for risk assessment as well as simple and objective criteria to select and implement appropriate drought mitigation measures are key elements for a successful drought management strategy These key issues have been tackled by universities and public agencies involved in the EU projects Sedemmed and Sedemmed II Programme Interreg IIIB MEDOCC aimed at the definition of an integrated network for real time monitoring of drought the development of common methodologies for drought analysis and forecasting as well as the definition of proper mitigation strategies for the Mediterranean countries The book presents the main outcomes of such projects with a special focus on drought monitoring and forecasting techniques at different spatial scales new or modified agrometeorological indices and remote sensing technique for drought identification and characterization tools to improve surface water resources management under drought conditions methods and tools for groundwater resources monitoring and management based on hydrogeological and hydrodynamics characteristics of aquifers general criteria to select and implement mitigation strategies to prevent or minimize drought impacts *Handbook of Engineering Hydrology* Saeid Eslamian, 2014-03-21 While most books examine only the classical aspects of hydrology this three volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries It examines new approaches addresses growing concerns about hydrological and ecological connectivity new quantitative and qualitative managing techniques and considers the worldwide impact of climate change It also provides updated material on hydrological science and engineering discussing recent developments as well as classic approaches Published in three books Fundamentals and Applications Modeling Climate Change and Variability and Environmental Hydrology and Water Management the entire set consists of 87 chapters and contains 29 chapters in each book The chapters in this book contain information on The anthropogenic aquifer groundwater vulnerability and hydraulic fracturing and environmental problems Disinfection of water environmental engineering for water and sanitation systems environmental nanotechnology modeling of wetland systems nonpoint source and water quality modeling water pollution control using low cost natural wastes and water supply and public health and safety Environmental flows river managed system for flood defense stormwater modeling and management tourism and river hydrology and transboundary river basin management The historical development of wastewater management sediment pollution and sustainable wastewater treatment Water governance scarcity and security The formation of ecological risk on plain reservoirs modification in hydrological cycle sustainable development in integrated water resources management transboundary water resource management and more Students practitioners policy makers consultants and researchers can benefit from the use of this text

Climate Change and Sustainable Agro-ecology in Global Drylands Adel El-Beltagy, Rattan Lal, Kauser Malik, 2024-10-30

Drylands a home for nearly 2.5 billion people are highly vulnerable to anthropogenic climate change and dryland area may expand to 50% of the Earth's surface by 2100. Climate change may aggravate the prevalence of undernutrition and malnutrition because of adverse effects on quantity and quality of food production in these regions. This book takes a holistic approach to sustainable management of drylands to make agriculture drought resilient. Eminent scientists from around the world share their knowledge and experiences for adaptation and mitigation of the anthropogenic climate change through innovation in sustainable management of water, soil, crops, livestock, and fisheries. They anticipate that climate change will have major impacts on agro-ecosystems which requires continuous dynamic assessments globally, regionally, and at the local level where the major action of adaptation would have to occur. The assessment will require international cooperation and national capacity building. This book emphasizes approaches such as smart and precision agriculture, conservation agriculture, and new innovation and technology as tools for adaptation and mitigation. Several chapters are devoted to the human dimensions and policy considerations with emphasis on enhancing coping and adaptive capacity. This book addresses the picture after COP27 including loss and damage, governance, and finance. This work will be valuable to students and researchers in agroecology, climate change science, and dryland agriculture.

Science Reporter, 1974 *Optimizing the Delivery of Multiple Ecosystem Goods and Services in Agricultural Systems* Maria A. Tsiafouli, Evangelia G. Drakou, Alberto Orgiazzi, Katarina Hedlund, Karl Ritz, 2017-10-18 Agricultural land is subjected to a variety of societal pressures as demands for food, animal feed, and biomass production increase with an added requirement to simultaneously maintain natural areas and mitigate climatic and environmental impacts. The biotic elements of agricultural systems interact with the abiotic environment to generate a number of ecosystem functions that offer services benefiting humans across many scales of time and space. The intensification of agriculture generally reduces biodiversity including that within soil and impacts negatively upon a number of regulating and supporting ecosystem services. There is a global need toward achieving sustainable agricultural systems as also highlighted in the United Nations Sustainable Development Goals. There is hence a need for management regimes that enhance both agricultural production and the associated provision of multiple ecosystem services. The articles of this Research Topic enhance our knowledge of how management practices applied to agricultural systems affect the delivery of multiple ecosystem services and how trade-offs between provisioning, regulating, and supporting services can be handled both above and below ground. They also show the diversity of topics that need to be considered within the framework of ecosystem services delivered by agricultural systems from knowledge on basic concepts and newly proposed frameworks to a focus on specific ecosystem types such as grasslands and high nature value farmlands, pollinator habitats, and soil habitats. This diversity of topics indicates the need for broader scope research integrated with targeted scientific research to promote sustainable agricultural practices and to ensure food security.

The Enigmatic Realm of **Dryland Farming Crops Techniques For Arid Regions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Dryland Farming Crops Techniques For Arid Regions** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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Table of Contents Dryland Farming Crops Techniques For Arid Regions

1. Understanding the eBook Dryland Farming Crops Techniques For Arid Regions
 - The Rise of Digital Reading Dryland Farming Crops Techniques For Arid Regions
 - Advantages of eBooks Over Traditional Books
2. Identifying Dryland Farming Crops Techniques For Arid Regions
 - 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 Dryland Farming Crops Techniques For Arid Regions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dryland Farming Crops Techniques For Arid Regions
 - Personalized Recommendations
 - Dryland Farming Crops Techniques For Arid Regions User Reviews and Ratings

- Dryland Farming Crops Techniques For Arid Regions and Bestseller Lists
- 5. Accessing Dryland Farming Crops Techniques For Arid Regions Free and Paid eBooks
 - Dryland Farming Crops Techniques For Arid Regions Public Domain eBooks
 - Dryland Farming Crops Techniques For Arid Regions eBook Subscription Services
 - Dryland Farming Crops Techniques For Arid Regions Budget-Friendly Options
- 6. Navigating Dryland Farming Crops Techniques For Arid Regions eBook Formats
 - ePub, PDF, MOBI, and More
 - Dryland Farming Crops Techniques For Arid Regions Compatibility with Devices
 - Dryland Farming Crops Techniques For Arid Regions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dryland Farming Crops Techniques For Arid Regions
 - Highlighting and Note-Taking Dryland Farming Crops Techniques For Arid Regions
 - Interactive Elements Dryland Farming Crops Techniques For Arid Regions
- 8. Staying Engaged with Dryland Farming Crops Techniques For Arid Regions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dryland Farming Crops Techniques For Arid Regions
- 9. Balancing eBooks and Physical Books Dryland Farming Crops Techniques For Arid Regions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dryland Farming Crops Techniques For Arid Regions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dryland Farming Crops Techniques For Arid Regions
 - Setting Reading Goals Dryland Farming Crops Techniques For Arid Regions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dryland Farming Crops Techniques For Arid Regions
 - Fact-Checking eBook Content of Dryland Farming Crops Techniques For Arid Regions
 - 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

Dryland Farming Crops Techniques For Arid Regions Introduction

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