

AGROTECHNOLOGY FOR DRYLAND FARMING

2nd Revised Ed.

Arvind M. Dhopte



Agrotechnology For Dryland Farming

Clifford Lane



Agrotechnology For Dryland Farming:

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 ecosystem by sustainable use of soil and water resources. Drought and flood situations are experienced some where in the country inspite of plentiful resources of waters unshine hours but poverty among farmers still exists. This is a point of serious concern. Agrotechniques are alone the answer for low productivity 0.8 t ha of 90% rainfed farming. To feed over one billion galloping population of 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 measure 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.

Agrotechnology For Dryland Farming Arvind M. Dhopte, A.M., 2011-01-01
In Indian context Agrotechnology for Dryland Farming, 2017 In Indian context **Agrotechnology for Dryland Farming** Arvind M. Dhopte (ed), 2017 **Sustainable Development of Dryland Agriculture in India** R.P.

Singh, 2011-01-01 There are chapters on varied topics covering the major gamut of dryland agriculture. The topics covered by eminent scientists are Dryland agricultural research in India a historical perspective. The eminence of authors and the institutions they represent gives credence to the contents of the book. Research and development workers all would like to possess this book for ready reference and use. **Sustainable Dryland Farming** A.M. Dhopte, 2020-10-09 Sustainability is extremely important in dryland farming under global climatic change. Technology devised by various agricultural institutions is provided in this book. Variation in environmental factors may influence entire ecological system which may not be ideal for agriculture. Under such global scenario plant growth is under jeopardy. New varieties have to be developed to suit the varied climate or crop strategy in view of crop domain suiting ideal available temperature has to be framed to make dryland farming sustainable. Various agrotechnology needs to be adapted to avoid depletion in productivity. Global climatic change in future may limit the productivity of available varieties. Corporate farming may come to rescue the problem under present scenario.

Various agrotechnologies described in this book may help the farmers and planners to overcome the situation in future. Critical problems have been dealt with probable solutions to suit the requirements. Multicropping system, organic farming, watersheds, promotion, reclamation of degraded soils, soil health cards, use of portals of weather forecast, early harvest on physiological maturity and use of instant remedies timely under unfavourable season shall ease the failure of crop. Long outstanding demand has thus fulfilled with this book. **Text Book of Rainfed Agriculture and Watershed Management**

P. L. Maliwal, 2020-07-14. The book Textbook of Rainfed Agriculture and Watershed Management has been written to fulfill the requirement of undergraduate students of agriculture faculty considering the syllabus of V Dean's committee of ICAR. This book attempts to present the available information on dryland rainfed agriculture and watershed management in a very simple and lucid language in an easily understandable manner. The book contains chapters on an introduction to rainfed agriculture, soil and climate, drought, soil and water conservation techniques, water harvesting, crop management, contingent crop planning for aberrant weather conditions and watershed management. The student community may harness the benefit from this book by understanding the fundamentals of dryland rainfed agriculture and watershed management. I hope this book will be very useful for the students, teachers, extension specialists and others interested in rainfed agriculture. **Rice**

Science B. Chandrasekaran, K. Annadurai, R. Kavimani, 2013-07-01. This book is aimed at providing a comprehensive text on rice cultivation, production with major emphasis on rice-based integrated farming system, models, organic farming aspects, alternate cropping, new techniques like SRI, role of biotechnology etc. in an easily understandable manner. This book will also help to enrich the knowledge of young researchers in various fields of agriculture and in particular agronomy as well as to the teachers and researchers of the Agricultural Universities, Research Organisations. **Green Agriculture**, 2012-08-02

Green Agriculture. Green agriculture is a sort of system which carries out agricultural production with green technology. Its basic content is based on biological diversity, keeping harmony between nature and economy during the course of agricultural development by producing agricultural products in a pollution-free and nuisance-free environment. Methods and technologies to cater with climate change, droughts, floods etc. are also dealt in detail in the book. The book Green Agriculture: Newer Technologies carries 18 chapters and covers most of the on-farm adopted technology developed by our distinguished scientists, mainly focusing how to save the planet earth during agricultural activities through modern technology. The attempt is to highlight the recent agro-based development through newer technologies to make agriculture productive and eco-friendly.

Agroforestry Sunil Puri, 2007. Agroforestry is an age-old practice throughout the world but its recognition as a science is nearly three decades old. The scientific and systematic research on tree-crop interactions in India started in late 1970s and got major support and impetus with the establishment of All India Coordinated Research Project AICRP on Agroforestry in 1983 by ICAR. Today AICRP on Agroforestry has its network throughout the country. Under AICRP and through the individual efforts of State Agricultural Universities, location-specific agroforestry systems have been recommended to suit agro-climatic

zones landholdings and economic status of the region Though extensive research had been done till date but it is not available to scientific world farming communities who are the backbone of Indian rural development students and inquisitive readers in one manuscript This prompted the authors to club the information on agroforestry systems and practices prevailing in India in form of book For the sake of convenience agroforestry systems prevailing in India have been divided into four broad sections i Agroforestry in India ii Agroforestry system and practices in North West and Central India iii Agroforestry systems and practices in East North East and Southern India iv Allied topics related to Agroforestry Section one cover topics covering agroforestry experiences research and extension efforts done in the last 25 years in India Section two includes 13 chapters and section three covers 14 chapters wherein agroforestry research vis vis agroclimatic zones of different states of India have been discussed The last section comprising of 8 chapters includes topics related to role of agroforestry in soil conservation women development management of agroforestry modeling rehabilitation of mine spoils and breeding of agroforestry tree species

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